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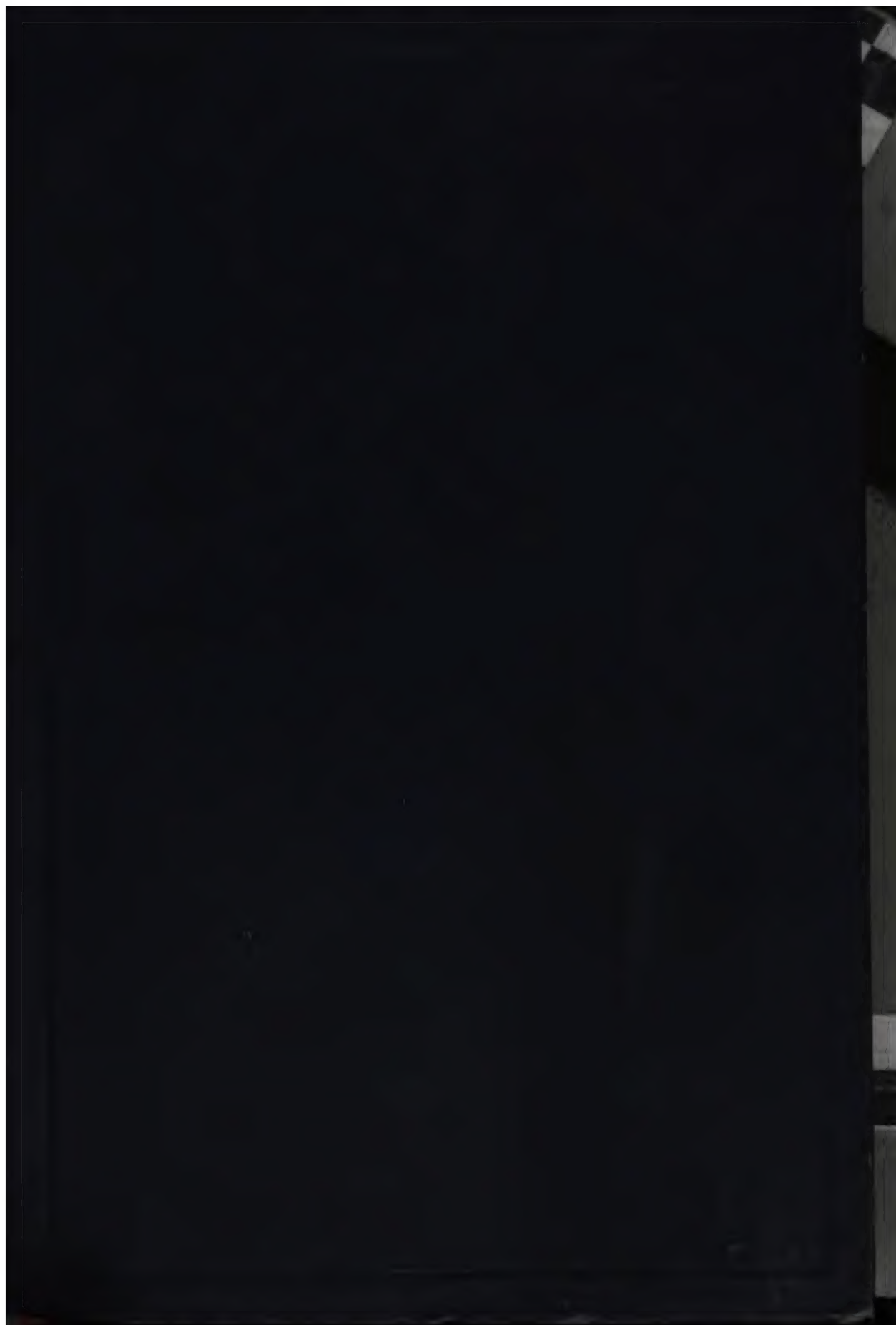
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A
COMPARATIVE GRAMMAR
OF THE
INDO-GERMANIC LANGUAGES.

Da muss sich manches Rätsel lösen
Doch manches Rätsel knüpft sich auch.

Goethe.

A
COMPARATIVE GRAMMAR
OF THE
INDO-GERMANIC LANGUAGES.

A CONCISE EXPOSITION
OF THE HISTORY

OF SANSKRIT, OLD IRANIAN (AVESTIC AND OLD PERSIAN), OLD ARMENIAN,
GREEK, LATIN, UMBRO-SAMNITIC, OLD IRISH, GOTHIC, OLD HIGH GERMAN,
LITHUANIAN AND OLD CHURCH SLAVONIC

BY

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VOLUME II.

MORPHOLOGY (STEM-FORMATION AND INFLEXION). PART I.

INTRODUCTION. NOUN COMPOUNDS. REDUPLICATED NOUNS. FORMATIVE SUFFIXES.
ROOT-NOUNS.

TRANSLATED FROM THE GERMAN

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TO

JOHN PEILE,

**DOCTOR OF LETTERS, MASTER OF CHRIST'S COLLEGE, THE FOUNDER OF THE
STUDY OF COMPARATIVE PHILOLOGY IN CAMBRIDGE**

THIS TRANSLATION IS DEDICATED

IN TOKEN OF THEIR GRATITUDE AND AFFECTION

BY

HIS OLD PUPILS.

PREFACE TO THE ORIGINAL EDITION.

In consideration of the length to which the Second Volume of this Grammar was likely to extend it seemed desirable to publish it in parts¹). Those which are still to appear will first complete the Morphology of Nouns and Pronouns, including the history of the Case-Endings. The latter section will be comparatively brief, since the ablaut of the inflexional syllables has been discussed in all its most important points in connexion with the Formative Suffixes. Then will follow the Morphology of Verbs (Stem-Formation and Inflexion), and finally a list of Additions and Corrections to the First Volume, [and an Index to both].

A third and last volume of smaller dimensions will contain the Syntax. In this part of Comparative Grammar very little work has been done, at least very little that can be called scientific, and hitherto no one has tried to give any systematic account of the subject as a whole. For a long while, I confess, I could hardly make up my mind to include it in the present work, but I have been greatly encouraged to make the attempt by the appearance of the fifth Volume of Delbrück's *Syntaktische Forschungen* (*Altindische Syntax* 1888), which, though it is not directly concerned with Comparative Grammar, has done a great deal to prepare the way for a general history of Indo-

1) The different parts of the German edition will appear as separate volumes in English.

Germanic Syntax. And in my work for the third volume I hope to have the help of O. Behaghel's *Grundzüge der germanischen Syntax* which has been announced for some time.

I have accepted as necessary one or two alterations in the transcription of Avestic; *æ* instead of *â* (before *r*, see vol. I § 558 p. 415), *š* for all three signs *š*, *š* and *š*. As regards these sibilants we ought still, in all probability, to make some distinction between the sounds in such words as *hištaiti* = Skr. *tīṣṭhati* (I § 556 p. 410), *mašya-* = Skr. *mārtiya-* (I § 260 p. 212 f., § 474 p. 350), *šyaōna-* = Protoethnic Aryan **ciautna-* (I § 448 p. 333, § 473, 4 p. 350). I accepted with other scholars the theory which Bartholomae advanced in *Bezzenberger's Beiträge* VII 188 ff. as to the respective value of these three signs in the Zend alphabet, and, so far as I can see, it is not disproved by Geldner's recent edition of the Avesta. At the same time it is certainly not confirmed by the results of Geldner's work, and Bartholomae himself, with Hübschmann and others, now follows him in writing *š* indifferently in all cases. Thus I had no alternative.

In Celtic Prof. Thurneysen has given me the same generous assistance as in the first volume. My pupil Dr. W. Streitberg has helped me in correcting the proof. To both I may here offer my hearty thanks.

LEIPZIG, Oct. 1. 1888.

Karl Brugmann.

TRANSLATORS' PREFACE.

In the two years that have followed the translation of the First Volume of the *Grundriss der vergleichenden Sprachwissenschaft* by Dr. (now Professor) Joseph Wright, the difficulty of the task has sensibly diminished. The methods and the nomenclature of the scientific school of Comparative Philology have found their way more and more into the work of English teachers, and it has become far easier to decide what innovations can, and what cannot be reconciled with established usage. Such words, for example, as 'thematic', 'ablaut', 'analogical', 'contamination', 'proethnic' are completely naturalised. The last we have universally adopted as the clearest equivalent of the German *ur-* prefixed to the name of a group of languages: 'proethnic Greek' is Greek older than the rise of its various dialects; 'proethnic Indo-Germanic', or more simply where there is no ambiguity, 'the proethnic language' is the parent of the various families of Indo-Germanic speech.

On the other hand the new subject-matter of the present volume involves new difficulties. On almost every other page of the original the word *Grundform* is used to denote the original form from which any particular word has been developed by phonetic change, and considering the frequency of its occurrence we could see no alternative but to adopt it bodily into English. Again some such expressions as 'fertile' (*produktiv*) and 'extended' (*erweitert*) were indispensable to describe the history of the different suffixes. The process of deriving a feminine form

from the masculine stem of an adjective (Germ. *Motion*) we have called 'differentiation'. To express the change by which a substantival compound becomes an adjective, or in terms of Sanskrit grammar, by which a *karma-dhāraya*-compound becomes a *bahu-vrīhi* German scholars have created a new verb *mutieren*, i. e. the Lat. *mutare*; the word 'epithetised' which is used for the first time in this translation is an attempt to describe the nature of the change a little more explicitly. Thus in English *blackbird* is a simple or 'non-epithetised' compound, *Greatheart*, *rosy-fingered*, in Latin *magnanimus*, in Greek *ῥοδοδάκτυλος* are 'epithetised' (see p. 92). The ambiguity of the word 'formation' which like the German *Bildung* does double duty, to denote sometimes an abstract process and sometimes its concrete result, is a source of considerable difficulty, which might well be avoided by using such a term as 'formate' to express the second meaning; and the convenience of words like *trans-formate*, *re-formate* *afformate* (*Umbildung*, *Neubildung*, *Nachbildung*) is at once obvious. But the change is not absolutely necessary and therefore, since this is a book of general reference, it seems fairer to the reader to suggest it in the Preface rather than to introduce it directly into the text; perhaps however we may assume the licence in the following volumes.

A small but perpetually recurring difficulty of which the reader should be warned, has been the translation of the preposition *zu* in its technical sense, for which we have no exact equivalent in English, except such phrases as 'directly related to', 'connected in accordance with' and these would be, to say the least, a little wearisome, if they appeared twenty times on a page. It really covers several shades of meaning; in '*amāvī zu amō*' '*tulī zu ferō*' it means *used as a tense of*; in '*ansātus*' *zu ansa*', *a derivative of*; in '*modestus zu modus*', *used as a derivative of*; in '*Lat. inclutus zu Gr. κλῖναι*', *containing the root of*; and so on. The nearest English equivalent in the first two cases would be the preposition *from*, in which there is a more serious ambiguity, used as it is to denote both historical and logical connexion, '*tulī from the root tel-*', '*tulī from ferō*'.

Sometimes of course the two coincide, but only in the case of words of which the first was in use in the form in which we quote it before the second came into existence. *suavior* 'comes from' *suavis* historically as well as logically because it is a special formation in Latin (in place of the Indo-Germanic stem **suad-ijos-*); whereas the genitive *patris* can only be said to 'come from' the nominative *pater* in the logical sense, not the historical, since both are descended from proethnic forms. The rule therefore that we have adopted has been to write *from* in the logical sense only where there can be no possible doubt that that is its meaning; where there would have been any danger that the reader should infer from it a historical, derivative relation that was not implied in the German, we have used *beside*. Thus in the examples given above we should render '*tutī* from *ferō*' but '*modestus* beside *modus*' (see p. 418). The line is of course hard to draw, but for safety's sake, we have used *beside* in all cases of doubt. To do so universally, i. e. to have written always '*patris* beside *pater*' instead of 'from *pater*' seemed a little pedantic. On the other hand *from* has of course its proper derivative significance in such phrases as '*ansatus* from *ansa*', where in German *von* and *zu* are used indifferently. The German *aus* connecting a form with its immediate phonetic antecedent, e. g. 'Lat. *fissus* aus **fid-to-s*' we have followed prevailing usage in rendering by *for*, '*fissus* for **fid-to-s*'. The reader will find that *for* is used only in this sense of direct phonetic connexion; to describe an analogical substitution (Germ. *für*) we have regularly kept to 'instead of'.

In minor matters, such as abbreviations, and details of printing we have followed English rather than German precedent. For obvious reasons however we have retained the order of the original in such phrases as 'Gr. Att. *ἵππος*' 'Skr. Ved. *śray-iṣṭha-*' (cf. p. 244), where they occur in a list of forms from different languages. But we have ventured to retain the symbol: which occurs on every page, and denotes that the forms that it connects stand in a definite relation to one another, and this, when it is not otherwise explained by the context, is always

one of regular phonetic correspondence; for instance it is invariably used to connect an Indo-Germanic form with the words which represent it in the derived languages e. g. Idg. **klu-tó-s*: Skr. *śru-tá-s*, Gr. *κλυ-τό-s* etc. A modification of this symbol, for which it was equally impossible to find a substitute, ': cp.' means 'partly related to' 'in some respects to be compared with'; it is employed where the forms compared are not completely parallel, but only to some extent, e. g. on p. 39, § 23 'Skr. *dn-aptá-s*: cp. Lat. *in-eptu-s*'; here the two words are parallel, but not identical, as the Latin form is derived from **ap-tó-*, the Sanskrit from **ap-tó-*, see Vol. I § 97, 3 p. 91. Similarly on p. 60, § 34 'Lat. *sim-plex*: cp. Gr. *ἀ-πλόος*' implies that the compounds are parallel, but identical only in their first member; p. 193, § 75 Gr. *ἡμέ-τερο-ς*: cp. Lat. *nos-ter*', that the use of the suffix is the same in both. It would be difficult to enumerate all the varieties of positive meaning that may be implied by this practically colourless symbol; to remove it altogether would be to re-edit the whole Grammar, not to translate it. The symbol : is also placed at the end of a general statement which is immediately followed by a list of illustrative examples, but otherwise it is not used as a mark of punctuation. On the other hand where the scientific brevity of the original made the connexion of the argument a little difficult to follow, so that sometimes the meaning of a whole paragraph turned on the significance of a comma or a bracket, we have felt less scruple in giving it more explicit expression.

In the first hundred pages and in the sections on the Meaning of the Suffixes, the reader will find a few additions to the text for which the translators are responsible. With Prof. Brugmann's permission we have inserted illustrations from Modern English beside his own from Modern German, where the latter are given to illustrate some general principle. These interpolations are all enclosed in square brackets.

At his request we have departed from Dr. Wright's usage in one important respect by using Old Church Slavonic instead of Old Bulgarian as the name of the language of the

Slavonic apostles Cyril and Methodius. We hesitated for some time between 'Welsh' and 'Cymric', but decided on the whole to keep the latter in conformity with the first volume. The 'Corrections and Additions' of the German edition are embodied in the text, together with several other minor alterations, mainly of misprints, which Prof. Brugmann has sent us. To him we would offer our hearty thanks for his constant help in matters of difficulty. We owe to Dr. Wright's courtesy a list of *Corrigenda* in Volume I.

The translation is a joint work throughout, but Mr. Conway is everywhere responsible for its final form, as Mr. Rouse will be in the remaining volumes, which we hope will follow the parts of the German edition as they appear, at much shorter intervals than has been possible so far.

The present volume has demanded a year's continuous work and a good deal of anxious consideration from us both. But we shall be more than rewarded if it can do anything to extend the share which English-speaking students can claim in the marvellous increase of exact knowledge which the book itself records. It is the boast of modern discovery to have made the world more thinkable and human life more full of meaning in a thousand ways; and before the century reaches its close, Comparative Philology, that is, the History of Language, will have attained no mean rank in the great sisterhood of sciences whose task is to explore the history of man.

R. SEYMOUR CONWAY.

W. H. D. ROUSE.

CAMBRIDGE, Aug. 1. 1890.

CORRIGENDA.

VOLUME I.

P. 112 l. 6 Read *the variation* instead of *the opposite*.

P. 350 last line but one. Remove the comma after *cases*.

P. 529 Rem. 2 l. 2. Read *velars palatals and dentals* instead of *lingual palatals*.

See also the footnotes to pp. 118, 167, 274, 367, 432, 434, 441 in Vol. II.

VOLUME II.

P. 153 l. 5 read *should perhaps* for *must ultimately*.

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SIGNS AND ABBREVIATIONS.

* prefixed to a form indicates that it is not on record, but only inferred from other forms in the same or kindred languages. Prefixed to a root it implies that that form of the root does not occur in any word of which we have record.

✓ = root.

: = 'to be directly compared with'.

: cp. = 'to be in part compared with' (see the Preface, p. XII).

... after a form denotes that its final sounds cannot be exactly determined, (e. g. in **mēn-s-r*... p. 186 all that is said of the suffix is that it began with *r*).

*a*² denotes a sound which was either *a*, *e*, or *o* but cannot at present be more closely identified.

A small figure added to the name of a book denotes the edition referred to; e. g. Paul, Princip.²

Hom. A, B, ... Ω = Hom. Il. book 1, 2, ... 24.

Hom. α, β, ... ω = Hom. Od. book 1, 2, ... 24.

cp. = compare.

lit. = literally.

orig. = original, or originally.

esp. = especially.

scil. or sc. = scilicet, i. e. the word which follows it is to be supplied in the preceding phrase.

ib. = ibidem.

loc. cit. = in loco citato.

Pr., O., Mid., Mod. prefixed to names of languages denote Protothnic, Old, Middle, and Modern respectively.

poss. = possessive (adjectives).

dimin. = diminutive (adj. or subst.).

denom. = denominative (noun or verb).

There remain the usual abbreviations of Gender (m. f. n.), Number (sg. du. pl.), Case (nom. gen. etc.), Degree (pos. comp. superl.), Mood (ind. impr. etc.), Voice (act. med. pass.), Tense (pres. impl. etc.) and Part of Speech (subst. adj. partic. sup(ine) ger(und) etc.).

It is unnecessary to add a list of the abbreviations for the names of the languages. The latter are fully enumerated in the Introduction to the First Volume (p. 4 ff.). Observe only that A. S. = Anglo-Saxon, O.Sax. = Old Saxon.

MORPHOLOGY: STEM-FORMATION AND INFLEXION.

§ 1. All the developements of language denoted by the terms Stem-formation and Inflexion are based upon one common principle, the juxta-position and more or less intimate fusion of elements which were originally independent¹. The units of speech produced by this kind of composition became in later ages the types on which new words were made; and many such standard forms, which were in use long before the dissolution of the pro-ethnic Indo-Germanic community, still serve as models for new words. But this process of blending groups of independent words into single forms has been continually repeated all through the centuries; and thus new types have been successively evolved, to be in their turn the means of further developement. Yet these new types have never brought about any material change in the general method of forming words which had been adopted by the Indo-Germanic language in its proethnic stage. Certain primitive types, which were characteristic of the morphology of this family of languages, remained in constant use wherever they were spoken; and the forms which have arisen in later times, from the coalescence of words grouped in some syntactic relation, have always been cast in the mould of one or other of these prescribed models.

1) See Vol. I § 13. 14.

It is therefore the business of the grammarian, in this division of his subject, to exhibit these processes of composition, and the new formations to which their analogy gives rise.

In this department of the history of language, the main line of division is that which separates Noun and Pronoun on the one hand from Verb on the other. In dealing with the former class, we have to discuss terminations of Case, and the many different methods by which nouns or pronouns form their stems; in the latter class, we have to consider terminations of Person, and the equally numerous methods by which verbal stems are formed. These two departments, however, constantly overlap. Verbs are formed from noun-stems, as Gr. *τιμάω* 'I honour' from *τιμή* 'honour' Lat. *plantō* from *planta* ("Derivative Verbs"); and, on the other hand, nouns often contain verbal stems (for example, the so-called participles, gerunds, infinitives, and supines, e. g. Gr. part. *δώσων* inf. *δώσειν* as compared with *δώσω* 'dabo'). Forms of this double nature are accordingly discussed in both divisions of Morphology.

In either case we shall begin with those words whose structure exhibits most clearly the principle of composition, which is the basis of the whole formative system of the Indo-Germanic languages; we shall begin, that is, with compounds in the common acceptation of the term, such as Gr. *ἵππο-δάμοσ* 'horse-taming' *ἀπο-βάλλω* 'I cast away'. Last of all will be treated those elements of words whose original independence is now least obvious, i. e. the signs of the cases on the one hand and the personal-endings on the other.

Throughout our discussion we shall consider both the forms as such and the meaning attached to them. Here we shall meet with questions of Syntax, which however includes too many heterogeneous elements to be fully treated in connexion with Morphology.

It is necessary first to offer a few remarks on the general principles of formation whose action can be traced in the history of Indo-Germanic. To a certain extent these will merely repeat in greater detail what has been already said in the General

Introduction (I § 13. 14) to explain the use of hyphens, and of a few special terms, which will be found in this work.

§ 2. When a group of words connected in some syntactical relation is fused into a single form, it is called a 'compound'; e. g. Gr. *Διόσκουροι* 'sons of Zeus' from *Διός* *χοῖροι*, Mod.H.G. *hungersnot* 'pressure of hunger' from Mid.H.G. *hungers not*, [Eng. *commonwealth* from *common wealth*]. The compound — to restrict the term for the moment to those consisting of two members — becomes a simple word when either its first or its second member has lost its connexion in the mind of the speaker with kindred words which are uncompounded, and consequently the comparative independence which it formerly had. This process may give rise to a word which to the speaker's consciousness is absolutely simple, e. g. Lat. nom. sing. *qui* for **quoi*¹⁾ i. e. **quo* 'who' + *i* (deictic particle, cp. Umbr. *po-ei* sing. 'qui' *pur-i* pl. 'qui'), O.Pers. nom. sing. *hauv* 'this' from **ha* = Skr. *sá* + the particle *u* = Skr. *ú*, Lith. *bú-k* 'be it, as though' which contains the particle *-ki -k*, Lat. *s-ub* no doubt for **(e)x-ub* (I § 568 p. 425); or else the element in question loses its full meaning, and being used with the same value in a considerable number of words is reduced to what is called a suffix or a prefix; as *-heit*, a suffix which forms substantives denoting a quality, found e. g. in *schönheit*, which originally meant 'beautiful condition' (in O.H.G. and Mid.H.G. *heit* is still an independent word), [Germ. *heit* = A.S. *had* Mid. Eng. *hōd* Mod. Eng. *-hood* in *maiden-hood* etc.], Lat. *-iter*, a suffix used in forming adverbs, e. g. *breviter*, which originally = *breve iter* 'short-way' (*iter* 'way'), O.H.G. *ala-* ('omni-') an intensive prefix, e. g. in *ala-festi* 'firmissime', Mod.H.G. *stock-*, also intensive, e. g. *stock-finster* 'pitch dark' *stock-dumm* 'utterly stupid' [cp. Eng. *stone-deaf*, *stone-blind*] (see Tobler, *Über die Wortzusammensetzung* p. 116 ff.). If a word is compounded with itself the process is called reduplication, e. g. Gr. *πάμ-παρ* en-

1) It is a moot question whether *qoi* in the Duenos-inscription is *qui* or *cui*; see Zvettaïeff, *Inscriptiones Italiae inferioris*, 1886, p. 80 sqq.

tirely'. Here also either of the two parts may be degraded by a process similar to that which gives rise to a suffix or a prefix; e. g. on the one hand Mod.H.G. *mur-mel* 'murmur' (Lat. *mur-mur*), where the termination *-mel* has the character of a suffix, and or the other hand Skr. *ci-kī-* 'comprehending, aware', where *ci-* is a kind of prefix.

§ 3. No hard and fast line can be drawn between a phrase or group of words connected in some syntactical relation, and a compound.

It is no doubt a fair definition of a compound to say that it is fully formed when the whole becomes in any way isolated from the parts of which it is composed as used independently (I § 13 p. 14). Lat. *magnōpere*, for instance, was isolated from its component elements *magnō opere* by its vowel contraction; Lat. *dēnuō*, from *dē novō*, by the weakening of *-ov-* to *-u-* due to its enclitic position; and Hom. *πᾶν-ῆμαρ* 'all day long' by the circumstance that the neuter **πᾶν* (for **πᾶντ*) when used independently took a long *α* from *πᾶς πᾶσα*. In Gr. *Διός-κουργοί*, in Lat. *plēbiscitu-m*, and in Mod.H.G. *gross-vater* 'grandfather', *süss-holz* 'licorice' the isolation was caused by the meaning of the whole being more definite and limited than the meaning conveyed by the mere syntactical grouping of the parts [cp. Eng. *best man*, *blackbird*]. Again in Attic Greek *ἀπο-βαίω* 'I go away' *ἐκ-βάλλω* 'I throw out' Lat. *ab-eō*, *ē-jiciō* the cause (or rather one of the causes) was the restriction of each one of the prepositional adverbs to use within a particular series of combinations. Thus the causes of isolation, and of the accompanying change of a phrase into a compound, are very diverse and quite easy to appreciate. But isolation is a matter of very gradual development; and we cannot fix a point at which the phrase passes into the compound, least of all in ancient languages, where we cannot appeal for help to the consciousness of any living speaker. At every stage in the development of language we find compounds in process of formation; and, naturally enough, it is often impossible to decide whether in any given instance a compound

is completely formed or not. Thus opinions may and do differ whether the spelling to be adopted is *δείξιλος* or *δὲ γίλος*, *καρηκομύοντες* or *κάρη κομύοντες*, and so forth, in Homer (see La Roche, Hom. Textkr. 311 ff.), *senātūscōnsultum* or *senātās cōnsultum* in later Latin, and in Mod.H.G. *aus himmelshöhn* or *aus himmels höhn* (in Schiller, compare his phrase *an ufers rand*), *möglicherweise* or *möglicher weise*, *wenngleich* or *wenn gleich*.

Remark. According to a very common view, if a phrase is included under one accent, it is proved *eo ipso* to be a compound; but this is incorrect. In that case every syntactical combination of two words where the second word is an enclitic (cp. I § 669 p. 534 § 672 p. 538 and elsewhere) would be a compound, which no one would maintain. Nor can the formation of derivatives from a given phrase by means of secondary suffixes be taken as a certain proof that the group is a true compound (e. g. Gr. *Λοκοῦργειον* from *Λός κοῦρος*). For the need of a derivative often creates a compound where the original is only a phrase; cp. Gr. *καλονδυαδία* from *καλός νδυαδός*, Mod.H.G. *langiceilig* from *lange weile*, [Eng. *freetrader* from *Free Trade*], Gr. *ἐγκέφαλος* adj. 'in the head' from *ἐν κεφαλῇ*, *παροβυλάσιμος* 'situated by the sea' from *παρά βύλας*, Skr. *anu-ṣatyá-s* 'consistent with truth' from *anu satyám* (cp. § 15), O.C.Sl. *obonimolínū* 'situated on the further shore' from *obū onū polū* (§ 47). Thus a derivative of this kind, itself a true compound, may be formed while the original phrase is only on its way towards becoming one: cp. also Lat. *Sacrariēnsēs* as compared with *sacra via*; *quartadecumāni* as compared with *quarta decuma*, O.C.Sl. *petinadesetlūnū* 'fifteenth' compared with *peti na desete* 'fifteen'; Avest. *aspa-vira-jan-* 'striking horses and men down to the earth' compared with *aspa vira* (a Dual combination, cp. § 27).

Where a compound consists of parts each of which can be used as an independent word, the following are the surest signs that it is a true compound: 1. If the termination of one member of the phrase is transferred to words which are incapable of taking it when uncompounded; e. g. when Gr. *διόσ-δοτος* (*διός* gen. sing.) gives rise to such a form as *θεός-δοτος* (cp. § 17). 2. If the case-ending or other inflexion of the first member, which was essential to the meaning of the original compound, loses its force in analogical formations; when for instance *Ἀρηέ-λυκος* (Hom.) *Ἀρεῖ-θύσσανος* 'fimbria Martialis' (Aeschyl.) are formed in imitation of *ἀρηέ-πατος ἀρεάπατος* 'slain in war'. 3. If the phrase is 'epithetised' (§ 50), as *ἀερί-οικος* 'having one's dwelling in the air', not 'a dwelling in the air'.

§ 4. It is equally impossible to draw a hard and fast line between a compound and a simple word. One part of a compound is reduced or degraded to a suffix or prefix,

or generally to an inflexional element, by losing in some way or other its connexion with the simple word in the consciousness of the speaker. This isolation may affect the meaning only; take e. g. the Lat. suffix *-iter* in *breviter longiter* and the like, which were originally compounds (for *breve iter*, *longum iter*, see p. 3 above), the O.Ir. intensive prefix *bith-* (originally 'world'-ep. *bith* 'world') in such forms as *bith-beo* 'semper vivus, immortalis' *bith-slán* 'semper salvus' etc.; or it may affect only the form, e. g. Mod.H.G. *-tel* in *drittel viertel* etc. as contrasted with *teil*; or it may affect both at once, e. g. Mod.H.G. *-lich* in *weiblich* (orig. = 'having woman's form') beside *leiche leich-dorn* [= Eng. *-ly* in *wife-ly* A.S. *lic*, Eng. *lych-gate*. The suffixes in *hat-red*, *friend-ship* *bishop-ric* etc. were independent words in Old English]. Isolation is most complete when the simple word passes out of use altogether, e. g. Gr. *πρό-από-*; Lat. *long-inquo-s prop-inquo-s*, the second part of which is the Skr. *-āñc-* 'directed somewhither' (§ 163), Mod.H.G. *schönheit*, whose second part was still an independent word in Mid.H.G.; the same thing has happened in the first part of a compound e. g. in Germ. *ala-*, as in Goth. *ala-mans* pl. 'all men' O.H.G. *ala-wār* 'quite true' (the only form used independently is *alla-*, for **al-no*). Thus even in the protoethnic Indo-Germanic period the temporal adverb **e*, seen in such phrases as **é bherom* 'I bore' **é dykom* 'I saw' (Skr. *ábharam ádyśam*, Gr. *ἔγχερον ἔδοικον*), had no doubt sunk to the level of an inflexional prefix, because it was no longer used except in these combinations with enclitic preterite forms. Sometimes the conscious connexion with the simple word is lost because one member of the compound chances to resemble some common suffix in sound; the compounded word is then treated as equivalent to this suffix, and the whole becomes a simple word: for instance, Gr. *καθ-ίζω* 'I set down' (*ίζω* for **si-zd-ō*, *√sed-*) was associated with verbs in *-ίζω*, as *πολεμίζω*, hence the fut. Att. *καθαῖω* Dor. *καθαῖζω*; O.H.G. *gom-man* (gen. *gom-mannes*) 'married man, man' was associated with simple nouns like *eban zeihhan*, hence such new formations as gen. sing. *gommanes* nom. acc. pl. *gommana*.

But in all these cases the change of function is very gradual; in every period we find compounded words in course of becoming simple inflexional elements. Compare further Skr. *úd-añc-* 'upwards' *praty-āñc-* 'backwards' *prāñc-* 'forwards' and the like (see § 163, and observe their later association with the suffix *go-*, § 86); Armen. *-a-vor* in *lus-a-vor* 'clear' etc., corresponding to the Gr. *-γόρον-ς* (§ 28); Gr. *-ειδής* in *θεο-ειδής* 'godlike, divine' etc.; Lat. *-gn-o-* (cp. *gen-us*) in *benīgnu-s*, *malīgnu-s* and similar forms, *-ig-a-* (cp. *agere*) in *navigāre litigāre flammigāre* and so forth (Leo Meyer, Bezzenberger's Beitr. VI 130 ff.); O.Ir. *-mār* (*mār* 'great') in *ardd-mār* 'very high' Mod.Ir. *luadh-mhar* 'victoriosus' (Glück, Kelt. Namen 77. 80 ff.), O.Ir. *-lach* (*slög* 'troop') in *tegl-lach* 'household, familia' *lucht-lach* 'the gens in toto, the district community' etc. (Zimmer, Kelt. Stud. II 25 ff.); Mid.H.G. *nūt-hart lüg-hart*, Mod.H.G. *aller-hand gewisser-massen* and *aller-best aller-meist*.

Remark. The reverse process does not often occur, i. e. when an element once a suffix or a prefix is raised in the speaker's consciousness to the dignity of a compounded word; but we find it e. g. in Mod.H.G. *leu-mund* 'repute, character' (popularly connected with *mund* 'mouth') = Skr. *śrū-mata-* (§ 82), *brū-sāme* 'the crumb of the loaf' (influenced by *sāme* 'seed') from O.H.G. *brūsuma*, Avest. *yuvae-ca tāitē*, where the latter form was abstracted from *yuvae-tāt-*, and shows how the suffix *-tāt-* was regarded in the speaker's mind. (§ 102 Rem.). A further example is Mod.H.G. *wahn-sinn wahn-witz*, whose first part was the prefix *ican-* pr. Germ. **yana-* 'lacking, without'. [So the suffix in Eng. *wed-lock* has nothing to do with the verb *to lock*, nor that in *cray-fish* (from Fr. *écrevisse*) with *fish*. Similarly *runde-lay* = Fr. *rondelet*].

It has already been pointed out in § 2 that the transition from a compound to a simple word does not always give rise to an element of the nature of a suffix or prefix. The following conditions are necessary for the production of an element of this kind: 1. the principal member of the compound must be etymologically clear; it must be associated with a kindred word or a kindred group of words: 2. the part so degraded must appear not in isolated words only but in a group of words, and in all of them it must have the same meaning: 3. this meaning must be more or less abstract and general

(Paul Princip.² 294). When these conditions are not fulfilled, the resultant forms may be called obscured compounds. To the speaker's consciousness they may appear absolutely simple words (apart from the endings of declension or conjugation which were ultimately affixed), as Mod.H.G. *welt* for O.H.G. *wer-alt* [Eng. *world*, A.S. *woruld*], Lat. *surgō* for **sub-regō*. Or even if they produce the impression of a word containing a suffix or prefix, it is only because their initial or final part has become associated with real suffixes and prefixes through some phonetic resemblance, e. g. Mod.H.G. *udler* for O.H.G. *adal-ar* ('noble bird of prey'), Mod.H.G. *wimper* 'eye-lash' for O.H.G. *wint-brāwa* 'wind-brow', Mod.H.G. *albern* 'foolish' for O.H.G. *ala-wāri*, 'very friendly' whose terminations resemble those of such words as *sattler*, *schneider*, *silbern* and the like [cp. Eng. *righteous* for *right-wise*, as though its formation were the same as that of *duteous plenteous*, *window* from Icel. *vind-auga* 'wind-eye' compared with *meadow fallow*, *scabbard* whose second part is identical with *-berk* in *hau-berk*, Mod.H.G. *berg-en*, not with the *-ard* of *poniard petard* etc.]. A third group consists of polysyllabic words like Mod.H.G. *bräutigam* (O.H.G. *brūti-gomo* 'bride-man') Lat. *ūsūrpō* 'I use' for **ūsū-rapō* [cp. Eng. *nightingale* A.S. *nihte-gale* 'singer of the night', *wiseacre* = H.G. *weissager*, *watershed* whose second part is Mid.E. *scheden* A.S. *sceādan* Mod.H.G. *scheiden*]. Here the second element has not become clearly associated with previously existing suffixes, while on the other hand such words as these are not conceived as absolutely simple. No general definition can express the way in which the instinct of the speaker regards them; each case must be treated by itself.

Obscured compounds undoubtedly existed as early as the proethnic period of Indo-Germanic; and in its later stages they are nowhere rare. The following examples may be assigned to the proethnic vocabulary: *syékuro-* 'father-in-law' (Skr. *śvāśura-* Gr. *ἐξυρό-* Goth. *svaithra*), **syésor-* 'sister' (Skr. *svásar-*

Lat. *soror* etc.)¹⁾, **vikṣanti*- 'twenty' (Skr. *viśati*- Gr. *fixari* *εἴκοσι* etc.), no doubt also **nizdo*- i. e. **ni-zd-o-* (✓*sed-*) 'settling place, nest' (Skr. *nīdā-s* Armen. *nist* etc.), **per-ut(-i)* loc. 'last year', connected with Gr. *φέρ-ος* (Skr. *parut* Gr. *πέρυσσι* etc.). **pr-sto-* **pr-sti-* **per-sti-* 'prominence, something prominent' beside ✓*sta-* 'stand' (Skr. *prsthā-m* 'prominent ridge, height, peak, top' L.Germ. and Dutch *vorst* f. O.H.G. *first* m. A.S. *first fyrst* f. 'roof-ridge'), **soy* 'this' i. e. **so* + the particle *u* (O.Pers. *hauv* Gr. *οὐ* in *οὐ-τος*), **nej* 'not' i. e. **ne* + the deictic particle *i* (Avest. *nae-ciš* 'no one' Lat. *nī* Lith. *nei*, cp. § 15). Even where this obscuration is found in more than one language it may often have arisen during the individual development of the languages in question: e. g. Skr. *piḍāyami* 'I press' (pf. *pipīḍē*) for **pi-zd-*, Gr. *πιέζω* 'I press' for **pi-sed-*, originally 'sit upon'; Lat. *crēdo* O.Ir. *cretim* 'I believe' beside Skr. *śrād dadhami* 'I believe, trust' (cp. § 160, 1). Examples peculiar to single groups of languages are: Skr. *nēd-iyas*- Avest. *nazd-yah-* 'nearer' for **na-zd-*, originally either 'ἐπιζών, προσήμενος' (✓*sed-* 'sit') or 'approaching' (✓*sed-* 'go, move', Gr. *όδός*-). Skr. *bhiṣāj-* 'physician', no doubt to be resolved into *bhi-ṣāj-* 'conjuror, magician', cp. *abhi-ṣajati* 'he bewitches, curses'. Gr. *κατόμβη*, cp. Skr. *śata-gu-* 'having a hundred cows'. *δεσ-νότης* originally 'lord of the house', *δά-πεδο-v* originally 'house-floor', see § 160, 2. *ώκεανός* probably to be resolved into *ω-κεανός* 'lying around', and compared with Skr. *ā-śēte*, see § 66. *ὅπως ὅπως* 'how (soever)', *ὅτι ὅτι* 'what (soever)' for **afód* *πως*, *afód* *τι*, cp. H.G. *sō hwo*, *swie* 'howsoever' *sō hwer*, *swer* 'whosoever'. Lat. *sub* *super* for orig. *(e)*ks-upo* *(e)*ks-uper*, cp. Gr. *ἐξ-ύπερθε*. *ap-eriō op-eriō* beside Skr. *r-ṇōti* 'he moves something, makes away with it', with *apa* 'he makes away with, removes, opens'. *pergō* for **per-regō*. *surpuā* for **sub-rapuā*. *prōmō* for **pro-emō*. *noenum nōn* for **ne-oinom*. *superbu-s* for **super-fu-o-s*, ✓*bhey-*, cp. Gr. *ύπερ-φ-ίαιο-s* I § 166 p. 147. Goth. preterite *frēt*

1) The *-sor-* in **mesor-* seems to have been a root-syllable, but the word appears to have attached itself to nouns like **bhrātor-* 'brother' **dōtor-* 'giver' (§ 119 ff.), just as Gr. *καθ-ίζω* was associated with *πολεμιζω* etc. (p. 6).

O.H.G. *fraȝ* 'he devoured' from pr. Germ. **fra-ēti*, O.H.G. *hiutu* O.Sax. *hiudu* 'to-day' beside O.Sax. *hiudiga* A.S. *heódæg* for **hiu-dgu* = Goth. *hia daga* 'on this day' (cp. Kluge, Paul Braune's Beitr. XII 376 f.). Mid.H.G. *bange* adv. 'anxiously' for **bi-ango*. Mid.H.G. *gunnen* for O.H.G. *gi-unnan* 'to give freely'. Mid.H.G. *niht* 'nothing' for O.H.G. *nīwīht*. Goth. *nī vaihts* not a whit'. Mod.H.G. *amt*, Goth. *and-bahti*, [Eng. *huzzy* O.E. *hūs-wīf*.]

Obscured compounds of this kind will be treated along with the rest, although no doubt by this method words will often be classed together which were very differently regarded by the speakers of any given period.

Lastly, it should be observed that the terms Suffix and Prefix, particularly the latter, are sometimes used in the science of language with a far wider sense than that which has been here assigned to them. One of the members of a compound may be called suffix or prefix, as the case may be, simply because it appears with the same meaning in each one of a group of words. Thus we meet with such phrases as 'the compound *ἀπο-βαίνω* with the prefix *ἀπο*'.

§ 5. When one member of a compound has become a prefix or a suffix, the group of words which contains it generally creates similar forms, and is thus enlarged by analogy. The more general the significance of such an element, the more readily are words of the same type formed; take for example the extent to which *-heit -lich* (*mann-heit männ-lich*) have spread in Mod.H.G., and in Latin the future ending *-bō* (*calē-bō*), which is derived from Idg. **bhū-ō* (✓ *bhey-* 'become').

If a suffix or a prefix at a given epoch can be employed to produce new forms on the analogy of those already in existence, it is called fertile or living, and if not, barren or dead. Suffixes or prefixes which once had great vitality may die out, to be perpetuated only by memory in a certain number of examples, and no longer used for the formation of similar words. Thus the suffix *-ti-* (§ 99. 100), used in all the Indo-Germanic languages to form *nomina actionis*, was still fertile in proethnic Germanic, but in the High German period was restricted to a

limited group of nouns, such as *zucht* 'breeding, discipline' *ankunft* 'advent' *geburt* 'birth'; its place has been taken principally by *-ung* (as in *schenkung* 'donation'), which still maintains its vitality. [In English it has been largely replaced by *-ness*, e. g. *drought dryness*, *dearth dearthness*, *sloth slowness*]. In like manner the same suffix was dead in Latin by the beginning of the literary period (e. g. *messi-s*, *mors* stem *morti-*), and its place had been taken by *-tiōn-* (as *fissiō natiō captatiō*), which is fertile even in late Latin. Again, *-o-*, in Homer still a living conjunctive suffix for verbs in *-μι* (*ἴο-μεν*, *ἄλλε-ται*) came down to Attic Greek only in a few forms which had a future meaning, such as *εδομαι χέτω*; in its place we find *-ω-*, which remained in active use throughout the classical period.

In a historical account of Indo-Germanic morphology this point must always be kept in view; and we are further bound to look for the reasons why one element used in forming words has died out and another taken its place. Thus for instance the suffix *-ti-* just mentioned fell out of use because it had split into several different forms by phonetic change; cp. Goth. *ansti-* *ga-buúrþi-* *ga-mundi-* *ga-dēdi-* (pronounced *ga-dēdi*) *us-stassi-* (cp. § 100 under Germanic); so that the unity of the group was destroyed. But language always seeks like phonetic expression for like functions; and thus new suffixes of other and usually fuller form were preferred, and encroached more and more upon the old ones.

An adequate consideration of this aspect of Indo-Germanic Morphology is here impossible. Unfortunately the present position of the science of language precludes such an attempt, and, in any case, regard must be had to the due limits of this work.¹⁾

1) In monographs on Word-Formation full justice has been done to it; see e. g. K. von Bahder in his work 'Die Verbalabstracta in den german. Sprachen', 1880. I may record my complete agreement with the principles laid down in his Introduction (pp. 1-9).

§ 6. In § 2 reduplication was mentioned as one of the factors in the formation of words in Indo-Germanic. This subject also calls for a few preliminary observations.¹⁾

Here too we start from the juxta-position of two originally independent words. The same word is repeated twice or still oftener, to express repetition or lengthened duration of a process, or such ideas as universality and intensity. At every stage of the developement of the Indo-Germanic languages, so far as they can be traced, we find this process going on; and it is undoubtedly as old as human speech itself. Now no hard and fast line can be drawn between the mere repetition of a word independently and the new single word arising from the coalescence of the original with its echo, if only because the aim of the repetition is nearly always such that the resulting form has the nature of a compound. Cp. Skr. *pīḥa-pīḥa* 'drink!' (Rgv. II 11, 11 *pīḥa-pīḥéd indra śūra sōma* 'drink, drink the soma, mighty Indra'), *dicé-dicé* 'day by day', *prá-pra* 'on and on', *yátha-yathā* 'howsoever'; Gr. *πάμ-παν* 'altogether', *προ-προ-κυλιρόμενος* 'rolling on and on' (Hom.), *μᾶλλον μᾶλλον* 'magis magisque', *πλέον πλέον* 'more and more'; Lat. *mane mane*, *audī* (Plaut. Asin. 229);

1) Compare: A. F. Pott, *Doppelung* (Reduplication, Geminatio) als eines der wichtigsten Bildungsmittel der Sprachen, beleuchtet aus Sprachen aller Welttheile, Lemgo und Detmold 1862. — G. Gerland, *Intensiva und Iterativa und ihr Verhältniss zu einander*, Leipz. 1869. — The Author, Über die sogenannte gebrochene Reduplication in den indogermanischen Sprachen, Curtius' Stud. VII. 185 ff. 273 ff. — H. Osthoff, Über *lal-* und *lul-*, zwei Fälle gebrochener Reduplication, ibid. VIII 449 ff. — Id., Zur Reduplicationslehre, Paul und Braune's Beitr. VIII 540 ff. — A. Bezzenberger, Zur Beurtheilung der attischen Reduplication, in his Beitr. III 309 ff. — H. Collitz, Über eine besondere Art vedischer Composita ['Iterativocomposita'], Verhandl. des 5. internat. Orientalisten-Congresses II, Berlin 1882, p. 287 ff. — Leo Meyer, Vergl. Gramm. d. griech. und lat. Spr. I^o 1093 ff. — Hainebach, De Graecae linguae reduplicatione praeter perfectum, Gissae 1847. — R. Fritzsche, Quaestiones de reduplicatione Graeca, Curtius' stud. VI 277 ff. — C. Jacoby, Die Reduplication im Lateinischen, Danzig 1878. — E. Wölfflin, Die Geminatio im Lateinischen, Sitzungsber. der bair. Akad. 1882, p. 422 ff. — Fr. Diez, Geminatio und Ablaut im Romanischen, Höfer's Zeitschr. für die Wissensch. der Sprache, 1851, p. 397 ff. — A. Bezzenberger, Zur Lehre von der Reduplication im Litauischen, in his Beitr. I 252 f.

jam jam, semper semper, quis-quis, ut-ut, Ital. *colpo colpo, piccolo piccolo*.

In this way repeated words had been fused into single forms even before the inflexional period of the Indo-Germanic parent language; and there is nothing to prevent our referring immediately to this oldest type of reduplication any words in the descendant languages in which the whole root is repeated; e. g. Skr. *gár-gar-a-s* 'eddy' *dár-dar-ti* 'he shatters, breaks up', Gr. *βᾶρ-βαρ-ος* 'speaking unintelligibly' *ἀγ-αγ-τιν* 'lead on', Lat. *quer-quer-u-s murmur*, O.C.Sl. *glagolŭ* 'noise, word' for **gol-gol-ŭ* (I § 281 p. 224).

Where, however, the reduplication is part of the structure of a simple word, full reduplication (*reduplicatio integra*) is comparatively rare. As a rule there is hardly more than a suggestion of the repetition, '*reduplicatio mutila*', e. g. in the perfect forms Skr. *ri-rēc-a* Gr. *λέ-λοιπ-ε* 'he has left', Lat. *tu-tud-it*, Goth. *ga-rat-rōþ* 'he applied himself', and in Skr. *śt-śir-a-s* 'cold, frost', O.H.G. *fi-fultra* 'butterfly'.

It is usually the former of the two syllables which has this abbreviated form. It is then regarded in the speaker's consciousness as a prefix, like the adverb *é*, the so-called 'augment' (cp. Gr. *ἐ-φειγον* : *πέ-φειγα*) and other degraded initial elements of compound words (*reduplicatio praefixa*). This mode of regarding it was supported by the unreduplicated forms which usually existed side by side with it; these the speaker's thought connected into one group (e. g. *πέ-φειγα* beside *φείγω φεύξομαι πυγή* etc.). Where the simple form corresponding to a reduplicated form had died out, or if it survived had lost all connexion with it in the mind of the speaker, the reduplication had not so clearly the stamp of a prefix; e. g. Skr. *ja-gar-mi* 'I watch', Gr. *ἴ-γᾶς* (*ἴ-γαν*), Lat. *me-mor me-moria*, Skr. *da-dru-* A.S. *te-ter* Lith. *de-dervinė* 'pustular eruption'.

Less frequently the second element of the reduplicated form is debased (*reduplicatio suffixa*). The commonest example is what is called 'broken reduplication', e. g. Skr. *dar-d-ŭ-* 'eruption on the skin' Lat. *derbiās-u-s* for *der-d-y-* (I § 170 p. 150) beside Skr. *dar-dar-a* 'burst' and the Skr. *da-dru-* etc. already mentioned,

Gr. *μῶμ-ω* 'bogie' beside *μῶμ-μῶμ-ος* 'fear', *πόμ-η* 'needle, clasp' beside *περόνη* 'clasp' *περάω* 'I pierce', Lat. *bal-b-u-s* beside Skr. *bal-bala-karōmi* 'I speak stammeringly', *gur-g-es* beside *gur-gul-iō*, Lith. *mūr-m-iu* 'I growl' beside Lat. *mur-mur*. Here nothing of the nature of a suffix could arise because there were no clearly defined groups of words with which these single forms might have become respectively connected, as was the case in the reduplication of the perfect. Only where there was some accidental phonetic resemblance to an already existing suffix did the element of reduplication assume the character of a suffix; e. g. Goth. *val-v-ja* 'I roll' (resembling *ufar-skad-v-ja*): cp. Gr. *ἐλ-ελ-ίζω*; and this often occurred in examples of *reduplicatio integra* and of *reduplicatio praefixa* as well, if the last element happened to sound like some suffix: e. g. Mid.H.G. Mod.H.G. *murmeln* = O.H.G. *murmulōn mur-mur-ōn* (Lat. *mur-mur-āre*) like *lisp-eln schauk-eln hand-eln*; Skr. *cakrā-m* 'circle, wheel' Gr. *κύκλος* 'circle' A.S. *hweowol* 'wheel' (Idg. **qe-ql-o-*) like Skr. *abh-rā-m* 'cloud' Gr. *ἀθ-λος* 'contest' A.S. *tung-ol* 'star'; Mod.H.G. *zittere zittre* (for pr. Germ. **ti-trō-mi*) like *schnatt-ere schnatt-re zimm-ere zimm-re*; Mod.H.G. *thät* (for O.H.G. *te-ta*, reduplicated perfect) like *schau-t*.

Remark. How are the types *de-der-* (*di-der-*) and *der-d-* related in their origin to the full form *der-der-*? First as regards *de-der-*, Pott and other scholars may be right in assuming that this is not a phonetic corruption of *der-der-*, but a mere 'suggestion' of the complete syllable, which was felt to be enough. *de-der-*, they maintain, is equivalent to *der-der-* in intention though not in fact, and there is no need to assume that such a form as *der-der-* preceded it. They point to such words in colloquial French as *mé-mère* 'little mother' *bé-bête* 'beastie' *Ba-barpe* 'Bab' (dimin. of 'Barbara') *Cha-chale* 'Charlie' as examples of the same principle. In single instances, however, phonetic change may have produced this type of formation, such a form as *der-dr-o-* becoming *de-dr-o* by dissimilation. Again, in the process of broken reduplication different agencies may have been at work, and in any case the examples of this kind have not all the same history. Here too dissimilation may sometimes have been the cause; *der-d-o-* may stand for *der-dr-o-*. And sometimes *der-der-o* may have been unconsciously resolved into *derd-ero-*, and thus being associated with words of the same type as Skr. *pat-ara-* 'flying', may have given rise to new formations in which *derd-* was taken as the 'root'.

It should be remembered that we are here discussing only the ultimate origin of these different kinds of reduplication. When for instance such a form a *de-der-* had once been evolved it became a creative type, and the later examples (e. g. all extant reduplicated perfect forms) are — directly or indirectly — mere analogical formations, made on the model of those in which the genuine process of development had taken place.

We have still to mention one more resemblance between these forms and compounds in the strict sense. In reduplicated words, as well as compounds, the real nature of the form may be obscured in some way or another, especially by phonetic change, and the result is a word which the speaker supposes to be absolutely simple (disregarding of course derivative suffixes, and any case-endings that may be in existence at the time); e. g. Skr. *sēd-* (in the perf. indic. 1. pl. *sēd-imā* opt. 3. sing. *sēd-yā-t* = Avest. *ha-zd-ya-p* etc.) Lat. *sēd-* (in *sēd-imus sēd-are*) for Idg. **se-zd-* i. e. **se-sd-* from \sqrt{sed} 'sit'; Lat. *ser-ō* 'I sow' for **si-sō* cp. Gr. *ἵημι* for **ai-ai-μi*, \sqrt{se} ; Mod.H.G. *beb-t* = O.H.G. *bibē-t*, Skr. *bī-bhē-ti* 'he fears'; another example which must be as old as the protoethnic period is the perfect stem **ēd-* (1. pl. Skr. *ād-imā* Lat. *ēd-imus* Goth. *ēt-um*, Lith. part. *ēd-ęs*) for **e-ed-* from \sqrt{ed} 'eat'.

§ 7. Lastly, we must consider Vowel-Gradation (Ablaut, see I § 307 ff. p. 244 ff.) as a factor in the formation of Indo-Germanic words.

This appears in elements of all kinds: in root syllables, e. g. *i- ei-* 'go' Gr. *ἵ-εῖν εἰ-μi*; in suffixes used to form noun-stems, e. g. *-tr- -ter-* Gr. *να-τρ-ός na-rép-ēs*, or verb-stems, e. g. the present suffix *-nu- ney-* Skr. *ci-nu-más ci-nó-mi*; in case-endings, e. g. the genitive ending *-s -es -os* Skr. *sūnó-ṣ* O.C.Sl. *nebes-e* (for **-es*) Gr. *νεπέ-ος*; in personal endings, e. g. 3. sing. *-ti -tai* Gr. *δίδω-αι δίδo-ται*; and in the reduplicatio praefixa, e. g. Skr. pres. imper. act. *ci-kiddhi* indic. med. (intens.) *cē-kītē* from *cit-* 'perceive'.

We saw in vol. I (loc. cit.) that vowel-gradation, a mechanical consequence of shifting accent, has quite as little to do with morphological differences of function as any other phonetic variations which arose within a given group of forms through

the action of what is called phonetic law. For instance, the *o*-form of ablaut which appears in the root-syllable of perfect forms like **de-dork-e* **le-loiq-e* (Gr. *δέδορκε λείλοιπε*), as distinguished from **derk-* **leiq-* and **dyk-* **liq-* in other forms of the verbal system, had originally no more connexion with the meaning of the perfect, nor had the *e*-form of ablaut, found in the formative suffix in the accusatives **pə-ter-ŋi* **mā-ter-ŋi* (Gr. *πατέρα μητέρα*) etc., as distinguished from *-tr-* *-tr-* in other cases, originally any more connexion with the notion conveyed by the accusative, than (say) the *σ* of the second persons *οἶσ-θα* *ἴσ-τε*, as contrasted with the *δ* of the 1. and 3. persons *οἶδα* *ἴδμεν οἶδε*, had to do with the distinction of persons. But the arbitrary phonetic differences produced by ablaut in the various groups of forms often acquired in time a special meaning, the particular phases of ablaut becoming closely attached to the particular idea conveyed by the whole word, and appropriated to this or that function in connexion with it. This is most clearly seen when such formative elements as had served, either solely or primarily, to distinguish the meaning of a particular form from that of other members of the same group, have been lost, thus leaving only the ablaut to indicate the meaning; e. g. Mid.H.G. 1. pl. pres. *binden* 'we bind' pret. *bunden* 'we bound' = Goth. *bindam bundum*, Idg. present stem **bhendho-* preterite stem **bhebhudh-*; Goth. acc. *aihsan* dat. (loc.) *aihsin* (nom. *aihsa* 'ox') = Skr. *ukṣān-am* (*ukṣān-am*) *ukṣān-i*; Goth. acc. *fadar brōþar* dat. *fadr brōþr* ep. (Gr. *πατέρα πατρ-ι*. Thus even in proethnic Indo-Germanic the vowel-grade *-tēr-* e. g. **patér* 'father' (Gr. *πατήρ*) had become in the nom. sing. the chief exponent of the special meaning of the case, as opposed to the voc. sing., Gr. *πάτερ*, and differences of ablaut like *δέχοιτο δόκoi*, *λείποι λίποι* had become connected with different kinds of action (continuous as opposed to momentary). In the same way other phonetic differences which had arisen accidentally became the exponents of different meanings. For example, in the masculine *i*-declension in Old High German it so happened that the whole plural had come to have the modified vowel: *gesti* etc. as opposed

to the sing. *gast*. The cases of the plural had originally been sufficiently distinguished from the singular by other means. But later on final *-e* was lost in Upper Germany, and partly so in Central Germany; and hence the modified vowel became, and still is, the sole sign of the distinction of number in the nom. and acc.: sing. *gast* pl. *gest* (*gäst*). Afterwards on this analogy *täg* was formed as a plural for *tag*, and *ärm* for *arm* etc.

In this way a definite phase of vowel-gradation in the Indo-Germanic languages has often become the mark of some definite meaning; so that the relations of Ablaut are of special importance in any account of their morphology.

In accordance with what has been previously said (I § 310) we distinguish 'Strong' and 'Weak' forms in the elements of which words are built up. The weak form shows the vocalism of the Lower or Weak Grade of Ablaut, the strong form that of the Higher or Strong Grade, and in each class again there are differences, which in forms of the strong grade may be very considerable (cp. e. g. I § 311).

The simplest of all the phenomena of vowel-gradation are those which appear in the terminations denoting case and person.

In the formation of stems, especially those of nouns, very complicated relations have sometimes arisen, chiefly because the original differences of gradation have been readjusted in course of the various processes of 'levelling' which the forms have undergone in one direction or another. Some such readjustments must have taken place soon after the differences in gradation had first appeared, i. e. long before the protoethic language had broken up; and since then the process has been continually repeated. In this branch of our enquiry we can scarcely hope for anything like complete success in investigating the original distribution of the different phases of Ablaut.

Yet in a considerable number of groups of forms we have attained to a fair degree of certainty, and can even now reproduce, on all essential points, the vowel-gradation shown by the stem at the period of the first separation of the tribes. In many classes of noun-stems the formative suffix had Strong-Grade vocalism in

the nom. acc. voc. loc. sing., in the nom. acc. du., and in the nom. (no doubt also acc.) pl., e. g. Gr. *πα-τήρ* *πα-τέρ-α* *πά-τερ* *πα-τέρ-ι*, *πα-τέρ-ε*, *πα-τέρ-ες* *πα-τέρ-ας*; and in the other cases that of the Weak Grade, e. g. *πα-τὴ-ός*, *πα-τὴ-ών* *πα-τρά-σι*. And similar distinctions hold good to some extent in the stem-syllable of root-nouns, e. g. Skr. *pát* *pád-am* *pád-as* as opposed to *pad-é* *pad-ás* etc. The terms used to distinguish these forms are Strong and Weak Cases respectively; a more detailed account is reserved for the sections dealing with Case-formation. In the verbal system, the three singular persons of the active generally had the strong form, and the plural and dual of the active with the whole of the middle had the weak form: and indeed this difference appears equally in root-syllables, e. g. Gr. *ἔ-μι* *ἔ-μεν*, in suffixes of Tense, e. g. Gr. *δαύ-ρη-μι* *δαί-με-μεν*, and of Mood, e. g. (Gr. *ε-ἴη-ν* *ε-ἴ-μεν* (**έσ-ιη-ν* **έσ-ι-μεν*).

§ 8. We have seen in the foregoing pages that the Indo-Germanic formative system in all its branches is really based upon composition. This being the case, the task of systematic morphology is to exhibit, first the processes of composition which gave rise both to what are usually known as compounds, and to all formations containing elements of the nature of suffixes or prefixes; and secondly, the developement of the analogical formations which are associated with these. It is clear however that this task can only be very imperfectly accomplished.

The furthest point to which we can trace the past history of Indo-Germanic speech, without entering upon a region of the merest conjecture, is an epoch when, so far as we can judge, many elements originally independent had become so completely lost in composition as to show no vestige of their original character either in meaning or in form. The instinct of the language for the particular kind or kinds of composition by which these elements had assumed the shape in which we find them had by that time completely died out, and it is hence very probable that there had already been a good deal of shifting and displacement. It is therefore impossible for us to say whether any given formative element ever existed independently in

precisely the form which it has when we remove it from its surroundings, or whether one or other of its sounds may not have been a later accretion which originally formed no part of it (cp. Mod. HG. *-keit*, I § 14 p. 16, [Eng. *-ology* in *ge-ology*, cp. *theo-logy*], Lat. *-cētu-m* in *būcētu-m busticētu-m*, which was abstracted from such forms as *nuc-ēu-m ilic-ētu-m*). By that time, too, hundreds of complex forms may have become simple units both in use and in appearance, so that, strictly speaking, we cannot be sure that any one formative element which we regard as a unit in morphology was really a simple form to start with. In modern times we are not in a position to determine what the actual processes of composition may have been — they were certainly many in number — whose work began and ended before the proethnic community was dissolved: all that can be done is to accept as data their after effects, direct and indirect. I would take this opportunity of once more calling attention to a point on which I have already laid stress (vol. I p. 17 f.). The formative elements which date from the proethnic period we call by such names as 'root', 'suffix', 'prefix'; but this does not imply that they were originally independent words. Thus the division of a word by hyphens, e. g. **seq-e-taj* (Gr. *ἐπ-ε-ται* Skr. *sác-a-tē*), merely indicates the parts which the speaker probably regarded respectively as the kernel of a whole group of forms (*seq-*), or as a formative element used in different words with the same special function (*-e-* and *-taj*).

Among the forms that serve to show the method of formation which prevailed in the parent language there are comparatively few in which we can feel sure that our analysis actually agrees with the original process of composition, so that the hyphen really marks the point where the word originally divided. We feel most confidence in analysing reduplicated formations like Skr. *dár-darti*; next, in the case of the augment, e. g. **é-dṛkom* 'I saw' (Gr. *ἐ-δρακον*); and the same may be said of some of the personal endings, as *-mi -maj*, *-ti -taj*, e. g. *eḷ-mi* 'I go' (Gr. *εἰ-μι*), since these are no doubt connected with **me-* 'I' **to-* 'the, that'.

The case is different with later compounds formed after

the first division of the language had taken place; e. g. Skr. *ekacitti-bhāvanti* 'they become of one mind' Lat. *colē-bō* for **colē fuō*. Here, unless the contrary is expressly stated, our hyphens always imply the assertion that in the case of the oldest examples of any formation which gave the type for the whole group, each of the parts thus separated was once really an independent word.

Remark 1. Of late years much labour and ingenuity has been spent in the attempt to determine the original form of Indo-Germanic 'roots', especially since the publication of de Saussure's suggestive *Mémoire sur le système primitif des voyelles* (Leipz. 1879). This subject, important as it undoubtedly is, I must dismiss with only a reference in passing, because of the grievous uncertainty of the theories hitherto advanced; nor do I wish to suggest to the beginner that he need at the outset give any special attention to the question. I still feel wholly uncertain whether Idg. **agē-* (Gr. pres. *ἀγ-τε* *āyo-uv*, subst. *ἀγός* *āyós*;) was earlier or later than **ag-* (Gr. *ἰν-ακ-τά-*;) and Idg. **gēn-* (Skr. *jani-tár-*) than **gēn-* (Skr. *ján-man-*), whether the shorter form came from the fuller or whether the latter was derived from the former by the addition of *-e-* *-o-* and *-a-*. The relation of Idg. **plē-* (Lat. *plē-nu-s*) to **pel-* (Goth. *fil-u* Skr. *pí-par-ti*) is also quite obscure. **plē-* may be regarded as standing for an older form **pelē-*, and its *-ē-* as an element not originally belonging to the root. But we may equally well regard **pelē-* as the original simple root-word from which all shorter forms have been derived. The authorities are cited by Hübschmann, *Das indogerm. Vocalsystem* p. 181 ff., Johansson, *De derivatis verbis contractis linguae Graecae* p. 82 sqq. 93 sqq., Bezzenger, *Götting. gel. Anz.* 1887 p. 417.

Remark 2. Another question much discussed is that of the so-called 'root determinatives'. Certain consonants frequently appear as the final sound of roots in a larger or smaller number of the words which belong to them. E. g. *-dh-* in Skr. *rā-dh-a-ti* 'brings about, prepares, satisfies' Goth. *ga-rē-d-an* 'to reflect upon something' O.C.Sl. *ra-d-iti* 'to reflect upon, care for' beside Lat. *rē-ra*, *ra-tio* Goth. *ra-pjō* 'ratio'; Gr. *πύ-θ-ω* 'putrefy' beside *πύ-ορ* 'pus'; O.C.Sl. *i-ā-g* 'I go' beside Gr. *εἰ-μι* 'I go'; further, in the suffixes *-dh-ro-* *-dh-ko-* *-dh-mo-* (see § 77). *-s-* in **kleu-s-* 'to hear' Skr. *śru-ṣ-ī-ṣ* 'courtesy, readiness' part. *śrō-ṣ-a-maṇ-s* O.Ir. *cluas* 'ear' (I § 516 p. 377) A.S. *hlū-s-t* 'hearing' O.C.Sl. *slu-ch-ū* 'act of hearing, hearing' beside **kleu-* Skr. part. *śru-tā-s* Gr. *κλυ-τά-ς* etc., and in **ten-s-* 'extend, stretch out' Skr. *tasāyati* 'he pulls this way and that' *vi-tasti-ṣ* 'span' O.H.G. *dinsan* 'to drag, trail' Lith. *tešiū* 'I stretch' beside *ten-* Skr. fut. *taniṣyā-ti* Gr. *τενσι* etc. The use of this *-s-* became widely extended in the Aorist and Future and also in Desiderative formations; it may also be etymologically connected with the *-ss-* in Gr. *ξ-εσ-* (*ξέω* 'I scrape, smooth' aor. *ξέσ-α*) beside *ξ-υ-* (*ξύω*) and *qr-s-* (Lith. *kas-aū* 'I scratch' O.C.Sl. *čes-ati* 'to comb, curry'); in *ns-εσ-* (*σβέν-ωαι* 'to quench') beside *ns-η-* (*Εσθη* 'was quenched') and *seg-* (Lat. *sequi-s* etc.); in *g-es-* (Lat. *ves-ti-s*) beside *eu-* (Lat. *ind-uō*

Lith. *au-nū aū-ti*), and many similar forms. *-eu- -u-* may sometimes be regarded in the same way, e. g. in *srey-* 'flow' (Skr. *śráv-a-ti* Gr. *ῥεῖν*) beside *ser-* 'move forward' (Skr. *śár-a-ti* 'goes, flows' Gr. *αῤ-μῆν* 'haste, impulse'). There need be no hesitation in assuming that in such instances we are dealing with elements which were not originally integral parts of the primitive word, or 'root', and that therefore, in parallel forms which we find without them, they have not been lost, but simply never existed. The name we give them — determinatives, formative suffixes, or what not — is a matter of no importance. Their origin and their original value are obscure. Where, as *-s-* in the aorist, they have a definite grammatical function, they may be named accordingly. Thus I describe *-s-* in *ἴδειν-a-σ* as an aorist-suffix, although I take it for granted that this element had originally nothing to do with the meaning of the aorist; but in doing so I imply no more than in calling e. g. *-mint* in Lat. *legimint* (= *λεγο-μεντοι* § 71) a suffix of the second person plural.

FORMATION AND INFLECTION OF NOMINAL (AND PRONOMINAL) STEMS.

§ 9. Our discussion so far has led us to the conclusion, that in the Indo-Germanic languages the first step towards a complete inflexional system is to be seen in the nominal compounds whose first member is an uninflected stem, and reduplicated nouns in which neither of the two members has sunk to the level of an inflexional element; that is, if we consider them apart from their case-suffixes and from any further derivative elements or other particles which may have become attached to them. It seems appropriate, then, to begin our account of the Morphology of Nouns, by treating first of Compound Words and of Reduplicated Forms.

COMPOSITION OF NOUNS (NOUN-COMPOUNDS).¹⁾

THE COMPOUNDS CONSIDERED IN RESPECT OF THEIR FORM.

§ 10. We may distinguish four classes of compound forms:

I. Compounds whose first part is the stem of an inflected noun or pronoun, e. g. Gr. *μωρο-γενής* compared with *μωρο-ς*;

1) F. Bopp, Vergleich. Gramm. III¹ § 962 ff. F. Justi, Über die Zusammensetzung der Nomina in den idg. Sprachen, Göttingen 1861.

II, Compounds whose first part is a word which never admits of inflexion in any period of the history of the Indo-

1. Tobler, Über die Wortzusammensetzung nebst einem Anhang über die verstärkenden Zusammensetzungen, Berlin 1868. F. Meunier, Les composés syntactiques en Grec, en Latin, en Français etc., Paris 1872. G. Meyer, Beiträge zur Stammbildungslehre des Griech. und Latein., Curtius' Stud. V 1 ff. Die Dvandva-Zusammensetzung im Griech. und Latein., Kuhn's Ztschr. XXII 1 ff. L. Schroeder, Über die formelle Unterscheidung der Redeklasse im Griech. und Latein. mit besonderer Berücksichtigung der Nominalcomposita, Leipz. 1874: Die Accentgesetze der homer. Nominalcomposita, dargestellt und mit denen des Veda verglichen, Kuhn's Ztschr. XXIV 101 ff. H. Guthoff, Das Verbum in der Nominalcomposition im Deutsch., Griech. Stud. und Roman., Jena 1878. The Author, Erstarrte Nominative, Curt. Stud. IX 259 ff. — Aryan: W. D. Whitney, Sanskrit Grammar § 1246 ff. H. Garbe, Das Accentuationsystem des ind. Nominalcompositum, Kuhn's Ztschr. XXIII 470 ff. F. Knauer, Über die Betonung der Compp. mit *a* priv. im Sanskrit, *ibid.* XXVII 1 ff. F. Spiegel, Gramm. der altbaktr. Sprache p. 102 ff. F. Justi, Handb. der Zendsprache p. 377 ff. F. Spiegel, Altpers. Keilinschr.² p. 171. — Greek: D. Pezzi, La lingua greca antica, *ibid.* p. 169 sqq. R. Roediger, De priorum membrorum in nominibus utraque compositis conformatione, Leipz. 1866. W. Clemm, De compp. utraque quae a verbis incipiunt, Giessen 1867; Die neuesten Forschungen auf dem Gebiete der griech. Compp., Curt. Stud. VII 1 ff. F. Heerdegen, De nominum compositorum Graecorum imprimis Homericorum generibus, *ibid.* 1868. G. Meyer, De nominibus Graecis compositis, Breslau 1871; Zur griech. Nominalcomposition, Curt. Stud. VI 247 ff. K. Zacher, De priorum nominum compositorum Graecorum partis formatione, Halle 1873; Zur griech. Nominalcomposition, Breslauer philol. Abhandlungen I, Breslau 1880. F. Fügner, De nominibus Graecis cum praepositione copulatis capita selecta, Leipz. 1878. O. Neckel, De nominibus Graecis compositis quorum prior pars casuum formas continet, Leipz. 1882. R. Schroeter, Quae formas nominum themata sigmatica in vocabulis compositis Graecis induant, Köthen 1883. For other references see E. Hübner's Grundr. zu Vorlesungen über die griech. Syntax, p. 29 ff. — Latin: R. Kühner, Ausführl. Gramm. d. latein. Sprache I p. 693 ff. F. Stolz, Die latein. Nominalcomposition in formaler Hinsicht, Innsbruck 1877. F. Ulrich, Die Composita bei Plautus, Halle 1884. F. Skutsch, De nominum Latinorum compositione quaestiones selectae, Noisse 1888. For other references see E. Hübner's Grundriss zu Vorlesungen über die latein. Gramm.² p. 43 f. — Keltic: J. C. Zeuss, Gramm. Celt.² p. 853 sqq. — Germanic: J. Grimm, Deutsche Gramm. II (1878) 303 ff. F. Kluge, Verbalpartikeln in der Zusammensetzung, Kuhn's Ztschr. XXVI 68 ff. und 328. Lautverschiebung in zusammengesetzten Worten, *ibid.* 82 ff. J. Kremer, Behandlung der ersten Compositionsglieder im german. Nominalcompositum, Paul und Braune's

Germanic languages accessible to our investigation, and only appears in compounds, e. g. Gr. ἄ-βατος:

III. Compounds whose first part is an old adverbial word (with or without case-ending), which was also used uncompounded, e. g. Gr. ἐνι-θετος compared with ἐνι (ἐν);

IV. Compounds whose first part is either a case-form which when it first entered into composition was a living member of some case-system, or an adverb which had only become such during the developement of the separate languages, and had the force of an adverb at the time when it was compounded; e. g. Gr. διός-κουροι and παν-αίολος.

No differences in principle are implied by this classification. It is chiefly intended as a convenient means of survey. In the course of the developement of the different languages, the boundaries of the various classes often wavered considerably, and here and there new formations arose which departed widely from the type originally proper to their particular class.

Classes I and IV are often contrasted as 'genuine' and 'spurious' compounds. The latter are also called Juxtaposita.

Proethnic Indo-Germanic.

§ 11. Class I. This type of formation was certainly represented by a large number of examples in the Indo-Germanic period, although there are not many compounds which occur simultaneously in different branches of the derived lan-

Beitr. VIII 371 ff. Th. Storch, Angelsächs. Nominalcomposita, Strassb. 1886. — Balto-Slavonic: J. Kremer, Behandlung der Suffixe in der Fuge nominaler Zusammensetzungen im Litauischen, Bezzenberger's Beitr. VII 8 ff. C. Pauli, Die Composition [in Prussian], Kuhn-Schleicher's Beitr. VII 209 ff. A. Alexandrow, Litauische Studien I, Nominalzusammensetzungen, Dorpat 1888. — F. Miklosich, Vergleich. Gramm. II 347 ff.; Die nominale Zusammensetzung im Serbischen, Denkschr. der Wiener Akad. XIII 1 ff. Baudouin de Courtenay, Wortformen und selbst Sätze, welche in der polnischen Sprache zu Stämmen herabgesunken sind, Kuhn-Schleicher's Beitr. VI 204 ff.

guages, and therefore may reasonably be classed here. Several have a numeral for their first member; e. g. Skr. *dvi-pād-* Gr. *δι-πους* Lat. *bi-pēs* A.S. *twi-fēte* 'two-footed'; Skr. *tri-dānt-* Lat. *tri-dēns* 'three-toothed'; Skr. *śatu-pād-* Lat. *centi-pēs* 'hundred-footed'. O.Pers. *hama-pitar-* Gr. *ὁμο-πάτωρ ὁμο-πάτριος* (O.Icel. *sam-fedr* 'having the same father, a common father'; Gr. *ὁμό-γυιος* Goth. *sama-kunja-* see I § 142. p. 128. Avest. *pouru-nar-* Gr. *πολυ-άνθρωπος* 'rich in men'; Skr. *puru-dāśas-* 'rich in wondrous deeds' Gr. *πολυ-δήμιον πολυπόλεμον, πολύμητιν* (Hesych.). Gr. *ὠκύ-πους* Lat. *acu-pedius* 'swift-footed'; Skr. *aśu-pātran-* Gr. *ὠκυ-πέτης* 'swiftly flying' Lat. **acu-piter*, which popular etymology changed to *accipiter*, as though from *accipiō*, and even to *acceptor*. Skr. *ny-mānas-* 'having the mind of a man', Gr. *Ἀνδρο-μένης*. Skr. *nāvajā-* i. e. *nāva + ajā-* 'driving ships, seaman', Lat. *navigō* 'I navigate' from **nāv-igo-* 'driving ships'. It is to be noticed that these formations scarcely ever correspond exactly; we have usually to suppose that analogy has modified the forms in the separate languages (e. g. Gr. *Ἀνδρο-μένης* instead of **ἀνδρα-*, see § 29).

§ 12. The termination of the first member.

Stems in *-o-* had *-o-*, cp. Gr. *ἰππό-δαμος* 'taming horses', (Gall. *Dēvo-guata* (*dēvo-* 'god'), Goth. *garda-puldands* 'master of the house', Lith. *gera-dėjis* O.C.Sl. *dobro-dějŭ* 'benefactor'. Whether *-e-* occurred as well as *-o-* (cp. Gr. *ἄγέ-λαος* beside *ἀγός-*, see § 29. 30) is doubtful. The final vowel of the stem seems to have remained unchanged even where the second part of the compound began with a vowel: Skr. Ved. *yuktā-aśva-* 'who has horses yoked', O.C.Sl. *bělo-okŭ* 'white-eyed' (cp. also Pruss. *dago-augis* 'young sprig of a tree' *deina-algenika-mans* dat. pl. 'to day-labourers'), see I § 600 p. 453.

Stems in *-a-*, in compounds formed in the separate families of language, sometimes end in *-a-*, and sometimes have the same form as the *o-*stems. The former is frequent in Aryan and Greek, rare in Latin and Lithuanian: Skr. *urvāra-jāt-* 'gaining arable land' Avest. *daēnā-vazah-* (proper name) from

daṇdā- 'law, faith', Gr. *δανή-γός* 'giving counsel', Lat. *fabā-ginus* 'proceeding from beans', Lith. *sziksznó-sparnis* 'bat' (properly 'leather-winged creature'). The *-o*-form is not uncommon in Aryan and Greek; it preponderates in Latin and Lithuanian; and in Celtic, Germanic and Slavonic it is the only form found: Skr. Ved. *ukha-chid-* 'breaking the pot' from *ukhā-*, Avest. *gaḍa-para-* 'wielding a club' from *gaḍā-* (= Skr. *gaḍā-*), Gr. *ἰλο-τόμος* 'felling timber' from *ἰλν*, Lat. *ali-pēs* from *ala*, Gall. *Tento-bōdiacē* beside O.Ir. *tuath* f. 'people' ground-form **teutā*, Goth. *airpa-kunds* 'of earthly origin' from *airpa*, Lith. *galvā-raiztis* 'headband' from *galvā*, O.C.Sl. *glava-bolije* 'headache' from *glava*. From these data I do not venture to draw any definite conclusion for the protoethnic period. It seems to me, however, improbable that the transition from *-ā-* to *-o-* took place independently in all the different languages. Indeed it is certain that the latter was the regular form in protoethnic Indo-Germanic when the compound consisted of an adjective + a feminine substantive: Skr. *prīya-bhāryā* 'beloved wife', Gr. *ἀνω-ποῖς* 'upper part of a city', O.Ir. *sen-mathir* 'old mother, grand-mother' from **seno-* (cp. however § 39), O.H.G. *junc-fromea* 'young lady' for **jungo-*, Lith. *jaunā-motė* 'young woman' *sen-motė* 'old mother, grand-mother' for **sena-* (cp. O.Ir. *sen-mathir*), O.C.Sl. *plūno-luna* 'full moon'.

Stems in *-ī-* and *-ū-* had *-ī-*, *-ū-* before consonants and *ī-*, *ū-* before sonants. Skr. *dhī-jāvana-s* 'exciting devotion, inspiring', *bhrū-kuṭi-ś* 'frown'. Skr. *śrīy-aditya-* (man's name) from *śrī-*, Gr. *αῦ-αγγος* 'choking swine' from *αῦ-ς*. Compare Skr. instr. pl. *dhī-ṣū* beside instr. sing. *dhīy-ā*.

Stems in *-i-*, *-u-*, nasals, liquids, and such of the stems in explosives as were declined with vowel-gradation had regularly the weak form of abhūt, from the protoethnic period onwards, in compounds as well as in derivatives (e. g. Gr. *παρ-δαίμων* like *παρ-της*, Skr. *pitṛ-dēva-s* like *pitṛ-tva-m*).

Stems in *-ī-* and *-u-* had *-i-*, *-u-* before consonants. Skr. *tri-pād-* Gr. *τρί-πους* Lat. *tri-pēs* A.S. *drī-fēte* 'three-footed', Gall. *tri-garanus* 'with three cranes', Lith. *tri-kójis* 'creature with three

feet' O.C.Sl. *trǐ-zabŭ* 'trident, three-prong'. Skr. *agni-dhānu-m* 'receptacle for fire', Lat. *igni-fer*. Proper names containing **uesu-* 'good': Skr. *vāsu-rōciṣ-* Avest. *vohu-raocah-*, Gall. *Visu-rīx* (woman's name) O.H.G. *Wisu-rīch*. Skr. *paśu-pā-s* 'cattle-keeper' Goth. *faihu-friks* 'covetous' Gr. ἡδρ-(F)επής 'speaking sweetly' Skr. *svadu-rātī-ṣ* 'bestowing beautiful gifts', Lat. *manu-festus*, Gall. *Catu-rīges* ('battle-kings') O.Cymr. *Cat-môr*, O.H.G. *Hadu-mār*, Lith. *virszū-kalnīs* 'mountain peak'. Before sonants we find sometimes *-i(i)-*, *-u(u)-*, sometimes *-ī-*, *-y-*, cp. I § 120 p. 111 ff. The first form is certainly original in such words as **tri-* 'three', **dru-* 'wood': cp. Skr. Ved. *trī(y)-aruṣa-* 'marked with red in three places', Gr. τρι-οῤος 'three-branched', Lat. *tri-ennium*, Gall. *Tri-obris*, O.H.G. *dri-ortēr* 'triangulus'; Skr. Ved. *drū(v)-anna-s* 'having wood for food', Gr. Δρυ'-οιν. Cp. further Skr. Ved. *hāri(y)-aśva-s* 'having golden-yellow steeds' *kṛṣṭi(y)-ōjas-* 'vanquishing the nations' beside *ahy-ārṣu-ṣ* 'falling upon dragons', *puru(v)-anīka-s* 'having many semblances' *madhu(v)-ād-* 'eating sweet things' *bāhu(v)-ōjas-* n. 'strength of arm' beside *pulv-aghī-s* 'harming much' (examples with *-y-*, *-v-* — which alone occur in classical Sanskrit — are rare in Veda; see Edgren, *Journal of the Amer. Orient. Soc.* XI 71); Gr. βρω'-άειρα fem. 'nourishing men', πολέ-ιππος 'rich in horses'; O.C.Sl. has an isolated example, *medo-ědi* 'bear' ('honey-eater') from *medŭ* = Lith. *medūs* 'honey'.

Stems in *-n-* may have sometimes had forms in *-y-*, before consonants, and forms in *-n-* or *-yn-*, before sonants. *-y-* may be inferred from Greek compounds like *κη'-δεμρον* 'head-band' for **κηā(n)-a-*, ὀνομα'-κλυτος 'with famous name' (I § 224 p. 192). We may set beside them Lat. *nōmen-clātor* *nōmen-culātus* and Skr. compounds like *śirṣa-bandhana* f. 'head-band' *nama-dhā-s* 'name-giver', and also *vṛṣaṇ-vasu-ṣ* 'strong as an ox' (cp. *vṛṣaṇ-vant-* and *vṛṣaṇ-yāti-* for **yṛsy-* I § 225 p. 192). As examples of *-n-* before sonants might be given Gr. ἀρν'-φδοός 'singing for the prize of a lamb' (late), *κερ-ῶπις* 'dog-eyed', Lith. *szūn-obūlei* pl. 'hawthorn' ('dog-apples'), and for *-yn-* Ved. *vṛṣaṇ-aśvā-* 'having stallions for steeds, drawn by stallions' (said of a chariot). Yet it is very uncertain whether those forms are the direct representatives

of original types. What we most commonly find is a substitution of *o*-stems for the stems in *-n-*, and this mode of representing the *n*-stems in composition appears to me undoubtedly proethnic. Gr. *κτό-κράνον* 'capital of a column' from *κτόν*, *αἰμό-θετον* 'anvil-block' from *αἶμα*, *αἶμο-βαφής* 'dipped in blood' from *αἶμα*, Lat. *homi-cida*, *sangui-suga*, *numi-clatori* (inser.), Mid. Ir. *talam-chumscugud* 'earthquake' from *talam* gen. *talman* (§ 37), Goth. *guma-kunds* 'of the male sex' from *guma* gen. *gumins*, *auga-daúrō* n. 'window' ('eye-door') from *áugō* gen. *áugins*; Skr. compounds like *śrīṣa-bandhanā* may also be classed here, and all the more confidently because such forms as Skr. *ukṣānna-* = *ukṣa-anna-* 'devouring oxen' (from *ukṣan-*) Avest. *zrvayu-* = *zrva-ayu-* 'specified time' (from *zrvan-*) clearly show the type of the *o*-stems (cp. *yuktāśva-*). This substitution of *o*-stems for stems in *-n-* is obviously connected with a similar change in the final members of compounds, as Skr. *tri-parva-s* 'with three edges' from *pārvan-*, *priyā-dhama-s* 'occupying a charming position' from *dhāman-*, Gr. *ἄπειρος* 'boundless' beside *ἀπειρον* (stem **περφον-*), *ἄρ-αιμος* 'bloodless' beside *ἀρ-αἶμων*, Lat. *ex-sanguis* for an older **ex-sanguo-s* (see § 93, under Italic) from *sanguen*, *sublimu-s*, later *sub-līmi-s* (properly 'reaching up to the lintel') from *līmen*.¹⁾

Stems in *-m-*. Skr. *sa-kṛt* 'once' (Gr. *ἁ-πλόος* 'single' Lat. *sim-plex*, Idg. **sm-*, from **sem-* 'unus' Gr. *εἷς* neut. *έν*, Gr. *δά-πεδον* 'floor in a house', then 'ground' generally, for **dm-*, from **dem-* 'house', see § 160, 2.

The Indo-Germanic type of formation in *r*-stems is shown in Skr. *pitr-śrávana-s* 'gaining glory for one's father' and *pitr-artham* 'for one's father's sake'. Cp. also Gr. *τετρά-γνος* 'containing four measures of land', from the Idg. stem **getyer-* (*τετρα-* = Idg. **getur-*, cp. I § 285), Goth. *brōþru-lubō* 'brotherly

1) No inference can be drawn from such Germanic examples as Goth. *hauh-hairta* 'haughty' beside *hairtan-* n. 'heart'. For even granting that stems like these had always been *n*-stems, the *a*-inflection must in any case have been forced upon them by the analogy of the strong declension of adjectives. Cp. Leo Meyer, Got. Spr. p. 247.

love' (? see § 40) and Gr. *nary-oni-mu-c* 'named from the father', *avto-ayma* 'spoils of an enemy'.

Stems in *-nt-* had *-nt-*: Skr. *byhad-rathá-* 'having a great car'. Idg. **bhrg̃hnt-*.

Stems in *-s-*. Gr. *μῶσ-qóvος* 'killing mice', Lat. *mās-cipula* 'mouse-trap'. Idg. **mās-*. Stems in *-es-* no doubt had *-es-*: Gr. *αἰξεσ-qóvος* 'shield-bearer', Goth. *sigis-láun* 'prize of victory', Skr. *rajas-túr-* 'hastening through the sky'. *-s-* no doubt occurred as well, cp. Skr. *mandhātár-* 'thoughtful, devout person' for **manz-dhātúr-*, beside *mánas-* (Gr. *μῆνός*). The use of *-a-* stems in their place, which is found in Greek, Latin, Keltic, and Slavonic (§ 29, 34, 37, 47, cp. also the Germanic, § 40 Rem. 5) may be an independent developement of the separate languages.

§ 13. The action of analogy produced many changes in what we must assume to have been the original forms of the initial members of compounds.

On the one hand, we find one kind of stem taking the place of another, e. g. a stem in *-o-* replacing a stem in *-i-*, as Slav. *gosto-* instead of *gostī-* (§ 47). We have just seen (in § 12) that changes of this kind arose even in protoethnic Indo-Germanic. Thus it may well be the case that **dyi-* 'two' (beside nom. acc. du. **dyōy*; Skr. *dvāú* etc.) was formed in this period to correspond with **tri-* 'three' (cp. e. g. **dyi-pod-* 'two-footed' beside **tri-pod-*) just as Gr. *διᾶ-νόμοι* was modelled on *τριᾶ-νόμοι*, *πεντά-νομος* (for *πεντί-νομος*) on *ἐντά-νομος*, and so forth: a different explanation of **dyi-*, which does not seem to me convincing, is given by Bartholomae (Ar. Forsch. III 39). In the developement of the separate languages the use of *-o-* as the connecting link in compound words was especially frequent: hence this ending has been called the 'vowel of composition' ('Compositions-vocal').

On the other hand, the stem is sometimes replaced by a case-form (the compound thus passing into Class IV). Of this kind are new formations like Skr. *agr̥ṣ-gā-s* (loc. sing.) beside

the more archaic *agra-ga-s* 'going at the head', Gr. *ἡγιογενής* (loc. sing.) 'born in Pylos', Mod.H.G. *befehls-haber lands-mann* (gen. sing.) for the older forms *befelch-haber land-mann*. In this class also a few examples may be proethnic, ep. Skr. *aṣṭā-pad-* *aṣṭā-pada-* (Gr. *ὀκτώ-πους* 'eight-footed', Lat. *octō-jugis* (Goth. *ahtáu-* seen in *ahtáu-dōgs* 'eight-day' (adj.) for **ahtō-*, following the uncompounded *ahtáu*) with the form of the nom. acc. du., and similarly, with the form of the nom. acc. sing., Gr. *ἑκατόμ-πους* *-πῆδος* Lat. *centum-peda* beside the more archaic Skr. *śata-pād-* Lat. *centi-pēs* *-pēda* (cp. also Goth. *handa-faþs* 'centurio', Lith. *szimta-kójis* 'hundred-footed').

Remark. Cp. the occurrence of the *-ō-* of the nom. acc. du. in the case-endings Skr. *-ā-bhīām* Lat. *-ō-bus* (*duobus*). Skr. *aṣṭa-* (seen in Ved. *aṣṭa-karṣā-* etc.) and Lat. *octi-* (seen in *octi-pes* etc.) do not represent the Idg. stem **okto-*, from which the dual was formed, but they follow the analogy of *sapto-* and *septi-*, cp. Gr. *ὅκτα-* beside *ὀκτώ-* in imitation of *ἑπτα-*.

The same substitution of case-form for stem is seen in certain derivatives formed by means of suffixes; examples of this are Skr. *tad-īya-s* 'belonging to that' *tad-vant-* 'provided with that' (*tā-d* nom. acc. neut.) *kī-yū-ṣ* 'desiring what?' (*ki-m* nom. acc. neut.), Skr. *divā-tana-s* 'diurnus' (*diva* instr. sing. 'by day', § 69), Skr. *uccāis-tard-m* 'higher' (*uccāṣ* instr. pl. 'high', § 75), Gr. *μυχοί-τατος* 'furthest back in the corner' (*μυχοί* loc. sing. 'in the corner, within', § 75), Gr. *ἥγιο-ς* 'powerful' (*h-yi* instr. sing. 'with power, with might'), Lat. *extrē-mu-s* (**extrē-* adv., § 72. 2), Goth. *jái-n-s* 'that' (m.) (**īoi* loc. sing., § 66).

§ 14. Class II: Idg. **u-* **un-* 'un-', connected with **ne-* **nē* 'not' (Skr. *ná ná* etc.): Skr. *a-mṛta-s* *ā-martiya-s* 'immortal' *an-aśvá-s* 'without horses', Armen. *an-gēt* 'unknowing', Gr. *ἄ-μῆροος* *ἀ-μῆροος* (cp. I § 120 p. 111) *ἀν-ιππος*, Lat. *in-somnis* (Skr. *a-svapná-s* 'sleepless'), O.Ir. *ē-tromm* 'not heavy, light', O.H.G. *un-ende* u. 'endlessness' (Skr. *an-antá-s* 'endless'), cp. I § 227 p. 194; and the parallel form **ū-* 'un-' = Gr. *vā- vη-* etc., see I § 253 p. 207. Idg. **dus-* 'mis- ill-': Skr. *dur-manas-* 'illwill, malevolence', Armen. *t-gēt* 'unknowing', Gr. *δυσ-μενής* 'ill-disposed', O.Ir. *do-chruth* 'deformed, ugly' (from *cruth* 'form', the *c* being

changed to *ch* on the analogy of *so-chruth* 'beautifully formed', see I § 658 p. 510 f.), O.H.G. *zur-lust* 'wilfulness, illwill'.

These initial members of compound words may once have been independent adverbial words which were restricted even in the proethnic period to use in composition; just as Idg. **su* 'well' and **sēmi* 'half', which in Aryan still occur as independent words, in the other branches of Indo-Germanic only survived in compounds.

§ 15. CLASS III. This class may be split up into numerous subdivisions; only a few of them can be noticed here.

Adverbs used in the separate languages as verbal prepositions are compounded with verbal nouns. Idg. **ēpi-dhato-s* 'added': Skr. *āpi-hita-s* 'shut, enveloped' Gr. *ἐπι-θετος* 'added'. Idg. **āpo-qiti-s* 'expiation, punishment': Skr. *āpa-citi-ṣ* Gr. *ἀπό-τις*. Idg. **ni-zdo-s* 'place for sitting down' (✓ *sed-*): Skr. *nīdā-s*, Arm. *nist*, Lat. *nīdu-s*, O.Ir. *net*, O.H.G. *nest*, see I § 590 p. 447. Idg. **peri-sroyo-s* 'a flowing round': Skr. *pari-srāva-s*, Gr. *περί-ρροος*. It was not before the period of separate development that adverbs of this kind were closely united with the finite verb, as in Gr. *ἐπι-τίθημι*, and it is clear that the older practice of compounding them with nouns gave considerable impulse to this tendency.

Remark. The group of purely verbal compounds then reacted upon the class of nominal compounds. It is true enough to say that e. g. Gr. *ἔξοχος* 'eminent, prominent' is not a compound of *ἐξ* and *ἄχος*, nor Goth. *aflēta* 'remission, forgiveness' a compound of *afl* and *lets*, but that those words are simple derivatives from the verbs *ἐξίχω* and *aflēta* (J. Grimm, D. Gr. II [1878] 694, Zacher, Zur griech. Nominalcomp. 8); and there is after all good reason for adopting Zacher's name for them, 'pseudo-compounds'. But it must not be forgotten that in creating such forms the language is merely adding new examples to old classes, whose types have come down from the proethnic period, and that by far the greater number of the so-called compounds in the Idg. languages were certainly not formed by any real process of composition, but merely through analogical imitation of old typical forms; that is to say, they are only 'pseudo-compounds'.

Adverbs, used in the separate languages as prepositions governing a case, are compounded with nouns which are found governed by them; *ἐγκέφαλος* = *ἐν κεφαλῇ ὄν*. In the proethnic

period, when this group of forms began to develop, prepositional phrases like Skr. *ānu satyām* 'conformably to truth' Gr. *ἐν κεφαλῇ* 'in the head' Lat. *ante portam* can hardly, as yet, have become a recognised construction. The need of derivatives, however, had already given rise to compounds, exactly in the same way as in Mod.H.G. *lang-weilig* is derived from *lange weile*, in Lat. *Sacraviēnsēs* from *sacra via* etc. (cp. § 3 Rem. p. 4 f.). Then, the more firmly the prepositional construction established itself in the separate languages, the easier was it to form corresponding compounds, and the more freely were they coined. Skr. *apī-karṇā-m* 'that which is situated by the ear, the region of the ear', Gr. *ἐπί-γῆος* adj. 'on the earth'. Skr. *upāri-martya-s* 'rising above mortals', Gr. *ὑπερ-ἀνθρώπων ὑπερ-ἥρω* (the same). Lat. *inter-vallum* 'that which is situated between two palisades (*inter vallos*), intermediate space', Skr. *antar-hastā-s* adj. 'in the hand'. Goth. *uf-áíþeis* 'under an oath, bound by an oath', Skr. *upa-kakṣā-s* 'reaching to the armpit'. Lith. *pér-galvė* f. 'that which is laid over or around the head, cowl', Gr. *περ-κέφαλον περι-κεφαλαία* 'head-covering'. It is noteworthy that Sanskrit and Greek agree in using as adverbs the acc. sing. neut. of these adjectival compounds, e. g. Skr. *praty-ākṣa-m* from *praty-ākṣa-s* 'lying before the eyes', *ati-mātrā-m* from *ati-mātrā-s* 'exceeding the proper measure', Gr. *ἐμ-πεδον* from *ἐμ-πεδος* 'situated on the earth, firm', *ὑπέρ-μορον* from **ὑπέρ-μορος* 'beyond destiny'.

The negative particles **ne*, **nei* (cp. O. Brugmann, *Über den Gebrauch des condicionalen NI in der älteren Latinität*, 1887, p. 32 f.), **mē* are compounded with the pronominal stems **qi-* **qo-*. **ne*: ná-ki-ṣ 'no one, nothing, not' (*ki-* instead of the regular *ci-*, see I § 448 Rem. p. 333). **nei*: Avest. *naç-ci-s* 'none', Lith. *nė-kas* O.C.Sl. *ni-kūto* 'none'. **mē* (prohibitive) Skr. *mā-ki-ṣ*, Gr. *μή-τις*.

§ 16. Class IV. Compounds of this kind do not appear in any great numbers until the later periods of the history of the languages. Of these, too, by far the greatest number are due to no real process of composition, but merely to the ana-

logy of already existing types. The following may be regarded as formations which had the character of compounds as early as the protoethnic period.

The words for the tens from thirty upwards, as Gr. τετρά-κοντα, τετταρά-κοντα, which have a nom. acc. pl. neut. as their initial member.

Idg. *duō-dek̑m̑ *duō-dek̑m̑ 'twelve': Skr. dvā-daśa dvā-daśa, Avest. dva-dasa (with *a* instead of *ā*, following *dva*), Gr. δώ-δεκα δωό-δεκα, Lat. duo-decim (with *o* instead of *ō*, following *duo*); compare Skr. dvādaśama-s Lat. duodecimu-s 'twelfth'. Idg. *tréjēz-dek̑m̑ 'thirteen': Skr. tráyō-daśa, Lat. trēdecim (I § 594 p. 450), Mid.H.G. dri-zehen (the sounds at the junction of the two words have been modified on the analogy of the two uncompounded forms, for -zd- would have become -st- in Germanic).

Remark. We may generalise so far as to assume that in protoethnic Indo-Germanic there already existed compounds for all the numbers 11—19. Yet it must be noticed that the names of the numbers up to nine are not all genuine case-forms, e. g. Idg. *penqe 'five' seen in Skr. pāñcadāśu Lat. quindecim Goth. fimftiathun.

Possibly there were also in the Indo-Germanic period compounds containing case-forms of *diṡ- 'heaven'; cp. Skr. divō-rūc- 'shining from heaven' Gr. Διός-δορυ 'given by Zeus', Skr. divi-jā-s divi-jāta-s 'born in heaven'. The Greek compound δεσπότης 'master of the house', whose first member was the Idg. gen. *dem-s (I § 204 p. 171 and § 160 below) may also have been inherited from the parent language.

To this class also belong such forms as Skr. tad-vaśā-s 'having a desire for that', Gr. ποδ-από-ς 'whence coming?' with the form of the nom. acc. sing. neut. See I § 228 p. 195 and § 163 below.

§ 17. The forms of this class, like those of Class I, gave rise to many analogical innovations. The most noteworthy of these is that the case-ending of the first member of the compound ceased to be regarded as a case-ending, and was used in composition with nouns which could not be joined with

it uncompounded; e. g. Gr. *ῥεόδοτος* (beside *ῥεός*, gen. *ῥεῶν*) on the analogy of *ῥεός-δοτος*, Mod.H.G. *hilfstruppen* 'auxiliary force' (beside *die hilfe*, gen. *der hilfe*) on the analogy of forms like *hungers-not*. See § 24. 32. 44. 47.

§ 18. Compounds of all classes have been used from the earliest period as personal names¹⁾, and it must be assumed that even in the parent language this was the commonest method designating of persons.

It remained in living use amongst all the Indo-Germanic peoples except the Italic²⁾. Examples are: Skr. *āśva-mēdha-s* (*āśva* 'horse'), *dur-mitrā-s* (*duṣ-* 'mis-'), *upa-diśa-s* (*upa* 'hither, this way'), *divō-dāsa-s* (*divās* gen. of *div-* 'heaven'); Gr. *Ἰννόμαχος*, *Ἀδμητος*, *Ἰνόςδικος*, *Ἀρηίλυκος*; Gall. *Dēvo-gnāta* (*dēvo-* 'god'), *Su-carus Su-caria* O.Bret. *Hu-car Ho-car* (*su-* 'well'. Skr. *sū*, *su-*, cp. I § 573 p. 430), *Ro-smerta* (*ro*: Gr. *ῥός*); Goth. *Austro-valdus* with Latinised termination (*austro-* 'east'), O.H.G. *Wolf-boto* (*wolf-* 'wolf'), O.H.G. *Un-forht* (*un-*: Gr. *ἀ-*); Lith. *Vaisz-nor-s*, *Nor-buta-s*, *But-vila-s* (**vaisza-s* or **vaiszu-s* 'guest' cp. *vaiszinū* 'I receive as a guest, entertain', *nora-s* 'will', *būta-s* 'house')³⁾, Pruss. *Buti-labes* (*būta-* 'house') *Austi-gaudis* (*austa-* 'mouth') *Na-bute* (*na* 'after, in accordance with'), Serv. *Vuko-mir* (*vuk* O.C.Sl. *plūkū* 'wolf'), *Ljubo-mir* (O.C.Sl. *ljubū* 'dear').

These compounds had in many respects a peculiar history.

Amongst the Greeks and the Germanic peoples, it was a custom to insert in a child's name one of the words which were found compounded in the name of the father or the mother:

1) See in particular A. Fick, *Die griech. Personennamen nach ihrer Bildung erklärt, mit den Namensystemen verwandter Sprachen verglichen und systematisch geordnet*, Göttingen 1874.

2) And perhaps the Armenians. On the subject of personal names in Armenian I have received communications from Prof. Hübschmann, and I am satisfied that in the present state of our knowledge it can neither be affirmed nor denied that this people retained any genuine Indo-Germanic compound names. In the case of geographical names, however, the old principle of nomenclature may be said to be still fully in force.

3) In Lithuanian this mode of forming family names is now obsolete.

e. g. *Αἰνο-κράτης* son of *Αἰνο-κλῆς*, *Εὐ-κράτης* son of *Εὐ-κράτης*, *Ἀνδρο-νίκος* son of *Νίκο-κλῆς*; in the 8th century A. D. we have *Walt-bert* son of *Wald-ram*, *Wald-bert* and *Wolf-bert* sons of *Hram-bert*, *Winc-gaudus* son of *Wine-burgis* (Stark, *Die Kosenamen der Germanen*, p. 159)¹). This explains the fact that words of the most heterogeneous meaning were often combined to form one name, as Gr. *Ἰππό-λας*, *Ρόδ-ιππος*, O.H.G. *Wolf-day*, *Fridu-gundis*.

One of the two compounded words was sometimes used alone as an abbreviation for the whole name (these are called 'Kurznamen' 'short names'), and suffixes expressing endearment were often added at the same time to this single stem. This practice of abridgement, which shows the same kind of linguistic thrift as we see e. g. in Mod.H.G. *bahn* = *eisenbahn*, *lager* = *lagerbier*, *soda* = *sodawasser*, *kilo* = *kilogramm*, *ein viertel neuen* = *ein viertel liter neuen weines*, in London slang phrases such as *zoo* = *zoological garden*, *pops* = *popular concerts*, *bus* = *omnibus*, and in Gr. *πᾶ*, *μᾶ* from *πατήρ*, *μάτηρ*², may be regarded as unquestionably belonging to the proethnic period. Skr. *dēva-s* *dēvaka-s* *dēvika-s* *dēviya-s* *dēvala-s* *dēvika-s* = *dēra-datta-s* *dēva-kṣatra-s* *dēva-śravas-* etc. Gr. *Ζεῦξ* *Ζεῦξιας* = *Ζεῦξ-ιππος* *Ζεῦξι-δαμος* *Ζεῦξι-θεος* etc. (Gall. *Toutus* *Toutius* *Toutillus* = *Touto-bocio* O.Cymr. *Tut-rī* (cp. Gall. *Toutio-rīx*) etc. O.H.G. *Wolfo* *Wolfilo* (Goth. *Vulfila*) *Wolfin* = *Wolf-brand* *Wolf-braht* *Wolf-gang* etc. Pruss. *Bute* *Butil* *Buteko* = *Butilubes* etc. Serv. *Vuk* *Vukoj* *Vukel* *Vukolin* = *Vuko-voj* *Vukomir* etc. (*vuk* = O.C.Sl. *vlkŭ* 'wolf'). This shortening was also effected by dropping the first member of the compound,

1) In Greek the influence of the father's name may be observed even in names consisting of single stems, the formative suffix being taken over to the new name, e. g. *Βράχ-υλλος* son of *Βράθ-υλλος*, *Παμεν-ίνκος* son of *Φιλ-ίανκος*. See J. Baunack, *Stud. auf dem Gebiete des Griech.*, I 1, 57.

2) The psychological side of this practice of abbreviation has been examined by Behaghel (*Die Deutsche Sprache*, p. 68 f.). It springs from the general tendency to leave unspoken whatever can be understood, or is at once suggested by the immediate context.

e. g. Gr. *Κλητός* = *Ἀνάκλητος* (a bishop in the first century), *Vulfus* = *Hun-ulfus*, *Scirorum primas*, saec. V, *Jornandes* c. 54.

Where this kind of abbreviation took place the feeling for the etymological structure of the compound was sometimes lost, and so the initial consonant or consonants of the second member remain in the curtailed form. Gr. *Νίκο-μᾶς* = *Νίκο-μῆδης*, *Ἀημο-σθᾶς* = *Ἀημο-σθένης*, *Εὐ-χρῖς* = *Εὐ-χρηστος*, *Πόλυ-ξῶς* = *Πόλυ-ξένης*. O.H.G. *Adal-bo* = *Adel-bero* and *Adel-boldus*, *Sibo* = *Sibold Sigi-bald*, *Rat-po* = *Rat-poto*, *Thiemo* = *Thiet-marus*, *Ercam-bius* = *Ercam-bertus*.

Remark. I do not know what view to take of the frequent strengthening of a medial consonant in abbreviated names in Greek and in Germanic; e. g. Gr. *Ξενναί*, *Ἀγαθθαί*, *Δικκῶ*, *Καλλο-ννῶ*, *Κλει-μμῖς*, *Θεο-ππῶ*, *Νίκο-ττῶ*, *Κλει-θθῖς*, O.H.G. *Itta* = *Ita-berga*, *Sicco* = *Siye-rich Sigi-bertus Sigi-fridus*, *Aggo* = *Ago-bardus*. Cp. Fick, *Die griech. Personennamen* p. LIX sq. and Bezzenberger's *Beitr.* III 277 f., Baunack, *Studia Nicolitaina* (Lips. 1884) p. 47 f., and *Studien auf dem Gebiete des Griech.* I 1, 60, Stark, *Kosenamen* p. 19 ff.

The student should compare the examples of abbreviated names in other languages collected by R. Mowat, in his essay *De la déformation dans les noms propres* (*Mém. de la Soc. de Ling.* I, 171 ff.).

§ 19. Accentuation of Compounds. In languages where the free Indo-Germanic accentuation can still be observed, the position of the accent in compounds varies considerably in many ways, and it is certain that even in the protoethic period a complicated system had been developed. Certain principles, however, can be everywhere recognised, and must probably be assumed as holding good for that period.

1. Where the meaning was not 'epithetised' (§ 50) the compounds of Class I (see above) were usually oxytone if the second member was a *nomen agentis*: Skr. *radhra-cōdā-s* 'driving on the weary' (*cōdā-s* 'driving on') *aśva-hayā-s* 'driving on the steeds' (*hayā-s* 'driving on'), Gr. *ψῆχο-πομπός* 'conducting souls' (*πομπός* 'conductor') *παιδο-τρόφος* for **παιδο-τροφός* (I § 676 p. 542 f.) 'nourishing children' (*τροφός* 'nourisher'). On the other hand, where the meaning was 'epithetised', the first member usually

bore the accent, no matter of what parts of speech the word was compounded: Skr. *hári(y)-aśva-s* 'having golden-yellow steeds' *hiraṇya-kēśa-s* 'golden-haired', Avest. *stehr-paēsa-* 'adorned with stars' = pr. Ar. **stf-paiśas-* (I § 260 p. 212, § 288 p. 229 f., § 674 p. 539), Gr. *βαθύ-κολπος* 'with deep, full bosom' *κλυτό-πιλος* 'having glorious steeds' *χαλκό-πους* 'bronze-footed' (as regards instances like *εὐρύ-ρῆιθρος* 'with wide stream' for **εὐρύ-ρεϊθρος* see I § 676, 2 p. 541 and Wheeler, *Der griech. Nominalacc.* 43 ff.), A.S. *fyðer-fēte* 'four-footed' for pr. Germ. **fipur-* (I § 529 p. 384 f.) like Skr. *cātuṣ-pad-*. Thus we find existing side by side forms like Skr. *rāja-putrá-s* 'king's son' and *rāja-putra-s* 'having kings for sons', Gr. *παν-τροπος* turning all' (cp. *τροπος* 'turner, strap by means of which the oar is turned') and *πολύ-τροπος* 'of many wiles' (cp. *τροπος* 'a turn') with many similar examples.

Remark 1. The exceptions to these rules still need careful investigation. Thus for example, Sanskrit compounds of *-pati-* 'lord', though they belong to the *immutata* or unepithetised class, accentuate the first member, as *gaṇḍī-patī-ṣ* 'lord of a troop' *pūr-patī-ṣ* 'lord of a stronghold', and the *d* of Goth. *-fadi-* in *hunda-fadi-* 'leader of 100 men' points to the same accentuation, pr. Germ. **hundā-fadi-* (I § 530 p. 386 f.). May not this substantive have been originally a *nomen actionis* meaning 'rule, lordship' (cp. § 149), so that the compounds in question would originally have been *mutata* (epithetised)?

2. Compounds with **u-* **un-* 'un-' accented this prefix if they were the same part of speech as their final member. Skr. *á-kumāra-s* 'non-boy, matured youth' (*kumārā-s*), *á-dīrgha-s* 'not long' (*dīrghā-s*), *á-kṣīta-s* 'imperishable' (*kṣītā-s*), *án-andha-s* 'not blind' (*andhā-s*). Gr. *α-δωρεα* 'gifts that are no gifts' (*δωρεα*), *α-δηλος* 'not plain' (*δηλος*), *ά-γητος* = Skr. *á-kṣīta-s*, *án-alτος* 'insatiable'.

Remark 2. If the phonetic law for *u*, which was laid down in I § 226, is correct, Skr. *án-* and Gr. *án-* must once have been regular even where the next part of the compound began with a consonant. In that case the unaccented *a-* *á-* of epithetised compounds like Skr. *a-tumás-* 'without darkness' Gr. *ά-δ(φ)ειής* 'fearless', must have passed into more general use, thanks no doubt to the fact that before a sonant every **un-*, accented and unaccented alike, regularly became *an-* *án-* (cp. *án-andha-s* and *an-énás-* 'sinless', *án-alτος* and *án-αιδής* 'shameless').

3. Compounds consisting of adverbs + participles in *-to-*, abstract substantives in *-ti-*, or similar verbal nouns (Class III), had the accent upon the adverb, just as the corresponding forms of the finite verb in a principal clause threw back their accent upon the adverbs which qualified them (cp. I § 669 p. 534). Skr. *prá-tta-s* 'given up' Gr. *πρό-δοτος* 'abandoned', Skr. *prá-tti-ś* Gr. *πρό-δοσις*; A.S. *frá-coð* Goth. *frá-kunþs* 'despised', O.H.G. *frá-tāt* 'transgression'. In Greek the accentuation followed new rules; thus we have *ἀπο-τελεύτητος* instead of **ἄπο-τελευτάτος*, *ἀπό-τισις*, for **ἄπο-τισις*, cp. *ἐνθ-ρέεθρος* above, 1.

4. Cumulative numerals (*Dvandva*) had the accent on the first number, as Skr. *dvā-daśa* Gr. *δώ-δεκα* 'twelve'.

Aryan.

§ 20. In the proethnic period of Aryan the existing types of formation underwent no important changes.

In certain forms, as Skr. *áśva-magha-s*, we find *-a-* where we should expect *-ā-*. These no doubt arose by analogy in proethnic Aryan, if they are due to the influence of Indo-Germanic stems in *-a-*, or if they contain the form of the instr. sing. See § 22, with the Remark.

Examples of compounds which accurately represent the Indo-Germanic types are: Skr. *vīra-hán-* Avest. *vīra-jañ-* 'slaying men'. Skr. *áva-hata-* Avest. O.Pers. *ava-jata-* 'beaten off, struck down, killed': cp. Lat. *au-*. Skr. *dūrē-śruta-* proper name, Avest. *dūraē-srūta-* 'far-famed', containing the loc. sing. of the stem *dūra-*.

§ 21. In Sanskrit, nominal compounds were freely developed. In the Veda and the Brāhmaṇa compounds containing more than two members appear but rarely; but in the classical language, especially in the artificial style, stem-compounds (Class I) consisting of several members are quite common, e. g. *sakala-nīti-śāstra-tattva-jñā-s* 'knowing (*jñā-*) the essence (*tattva-*) of all (*sakala-*) manuals (*śāstra-*) of deportment (*nīti-*)'. Later poets created compounds which were ab-

solute monstrosities; see the examples given by Justi, *Über die Zusammensetzung der Nomina*, p. 17.

§ 22. Class I.

o-stems. *aśva-yūj-* 'yoking horses': Gr. Ἰνπó-ζυγος. Ved. *yuktá-aśva-s* and *yuktáśva-s* 'for whom horses have been yoked': in classical Sanskrit only the contracted form occurs. No satisfactory explanation has been given of the *-a-* in Ved. *áśvā-magha-s* 'rich in horses' *gūrtā-vasu-ṣ* 'possessing agreeable things' and other similar examples.

Remark. Cp. *-ā-* beside *-a-* in Iranian (§ 25) Here we may conceivably have either 1. the feminine *-ā-* (cp. Gr. θάρσθ-φόρος beside θάρσθ-φόρος § 29); 2. Ar. *ā* = Idg. *o* in open syllables (I § 78 p. 69); 3. the effect of some principle of rhythm (cp. Avest. acc. *ver^aprā-jan-em* beside gen. *ver^aprā-jn-ō* nom. *ver^aprā-ja-jā*); or 4. the instrumental in *ā* taking the place of the stem. The origin of the *ā* need not, of course, be the same in every instance. Cp. also Skr. *āśvā-rant-* and the like, § 127.

a-stems. Ved. *jiyā-vāja-s* 'having the speed of the bow-string': Lith. *gijā* 'cord'. Parallel to these are forms with *-a-*, Ved. *ukha-chīd-* 'breaking the pot (*ukhā-*)' etc., see § 12 p. 24 f.

ī-, *ū-*stems. *śact-vasu-ṣ* 'powerful', *tanū-tyāj-* 'abandoning life and limb'. Cp. § 12 p. 25.

i-, *u-*stems. *tri-pād-*, *paśu-pā-s*, *tri(y)-aruṣa-* etc. (§ 12 p. 25 f.). Cp. also *dyu-kṣa-* 'dwelling in the light of heaven' beside *div-īt-* 'going to heaven' (cp. instr. pl. *dyū-bhiṣ*: instr. sing. *div-ā*): nom. sing. *dyāu-ṣ*, Gr. Ζεύς.

Nasal stems. *nāma-dha-s* etc., see § 12 p. 26 f. *sa-kft* Gr. ἁ-πλόος, see *ibid.* p. 27.

r-stems. *pitr-śrávaṇa-s* 'bringing honour to a father', *pitr-artham* 'for a father's sake'. Cp. § 12 p. 27 f.

nt-stems. *bṛhāt-kēlu-ṣ* 'having a lofty banner': acc. sing. *bṛhāt-am*. Cp. § 12 p. 28.

es-stems. *rajas-tūr-* 'hastening through the atmosphere'. The *-ō-* in *rajō-māgha-s* 'cloud of dust' *vacō-vīd-* 'skilled in hymns' (*vācas*: Gr. ἐπος), like the *-ō-* of the instr. pl. (*rájō-bhiṣ*), is taken from the nom. acc. sing. in *-ō* (*rájō*), see I § 591 p. 447 f., and § 24 below.

It is not uncommon to find the types of Classes I and IV confused, a case-form taking the place of a stem. Examples are given in § 24.

§ 23. Class II. *á-gata-s* 'not gone, untrodden': Gr. *ἄ-πατος* 'untrodden'; *án-ápta-s* 'not reached, not reaching to, unskilful': cp. Lat. *in-eptu-s*, *duš-pāra-s* 'hard to make one's way over, hard to pass': Gr. *δύσ-πατος*, the same. The opposite of the latter form, *sú* 'well', was not restricted to use in compounds until the post-Vedic period (as in *su-śrávas-* 'famous'); cp. § 26.

Class III. *prá-tata-s* 'outspread' *prá-tati-ś* 'an outspreading': Gr. *πρό-τασις* 'a stretching forward, assertion'.

ánti-gṛha-m 'the space over against (before) the house': Gr. *ἀντί-θυρον* 'the space over against (before) the door'. *anu-śatyá-s* 'conformable to truth (*ánu satyám*)'. *pari-hastá-s* 'placed round the hand (*pári hástam*)'. *á-dēva-s* 'going to the deity (*dēvám á*)'.

§ 24. Class IV. *pitā-mahá-s* 'grandfather on the father's side' (gen. *pitāmahásya*) from *pitā mahá-s* 'pater grandis'; from which came the feminine derivative *pitāmahī* 'grandmother on the father's side'. Cp. Lat. *rōs-martīnus* gen. *rōsmarīnī* § 36.

divō-jā-s 'child of heaven' (gen. of *div-*). *dasyah-putra-s* 'son of a slave-woman' (gen. of *dāsī*). *brāhmaṇas-pāti-ś* 'lord of prayer', *śubhás-pāti-ś* 'lord of adornment' (gen. of *brāhmaṇ-*, *śubh-*). *yudhi-śthira-s* 'proper name, firm in battle' (loc. of *yúdh-*). *diva-kīrtiya-* 'to be repeated by day' (instr. of *div-*).

This group of forms was considerably enlarged because case-forms were sometimes substituted for stems in compounds of the type of Class I; e. g. *divi-kṣīt-* 'dwelling in heaven' (loc. of *div-*), *apsu-kṣīt-* 'dwelling in the waters' (loc. pl. of *ap-*). *agrē-gā-s* 'going at the head' (loc. of *agra-*, *agra-ga-s* is also found), *vājam-bhará-s* 'carrying off booty' (acc. of *vāja-*), *agnim-indhá-s* 'kindling fire' (acc. of *agni-*). In such compounds as these there can have been no transition from a phrase to a compound word, but merely an analogical imitation of compounds already in

existence; for at the time when these were formed, their final members were no longer in use as independent words.

The same holds good of all such 'epithetised' compounds of this class as had that meaning as soon as they came into existence; cp. *rāyās-kāma-s* 'having desire for wealth' (gen.) from *kāma-s* 'desire', *dūrē-antas* 'ended, ending in the distance' (loc.) from *ānta-s* 'end' (compare *dūrē-śrutas*, a proper name, 'far-famed'), *śatīm-ūti-ṣ* 'furnishing a hundred (acc.) aids' from *ūti-ṣ* 'help' (with the simple stem: *śatā-vāja-s* 'furnishing hundredfold sustenance').

It often happened that the case-ending of the first member was used in new formations after it had ceased to be recognised as such, so that one part of the new compound shows a case-form which does not appear when the word is independent: thus *vānas-pāti-ṣ* 'lord of the wood' (stem *vāna-*, gen. *vānasya-*) is formed on the analogy of compounds ending in *-as-pati-ṣ*, whose first member was the genitive of a consonantal stem, as *brāhmaṇas-pāti-ṣ*; *vasun-dhara-s* 'concealing treasure' instead of **vasu-dhara-s* (cp. *vasu-dhāra-s*) from *vāsu* n. 'treasure', on the analogy of forms like *dhuran-dhara-s* 'bearing a yoke' (acc. *dhur-am*) *kulan-dhara-s* 'sustaining one's family' (acc. *kula-m*).

A further consequence of the dull appreciation of these case-forms was their use in new formations without their proper meaning, i. e. as though they were simple stems. Thus e. g. *apsu-*, loc. pl. of *ap-* 'water' (*apsu-kṣīt-*, see above), was used in place of *ap-* in *apsu-yogā-s* 'the binding effect of water' (Ath.-Vēda X 5, 5 beside *sōma-yogā-s* 'the binding effect of soma'), cp. the adjective *apsavya-s* 'situated in the water', which was formed from *ap-sū* as *madhavya-s* from *mādhu* ('sweet draught').

In imitation of old pronominal compounds like *tad-vaśā-s*, containing the neuter element *-d* (§ 16), neuter pronominal forms in *-m* were made to serve as the initial members of compounds, as *idā-rūpa-s* 'having this form' beside masc. *ayām* 'this', *kino-kāraṇa-s* 'having what cause?' beside masc. *kā-s* 'who?' (cp. the parallel Vedic form *kād-artha-s* 'having what purpose?' *kad-* = Lat. *quod*).

From the protoethnic Aryan period onwards combinations of two dual forms were common; e. g. *mitrá várundā*, 'Mitra and Varuṇa', properly 'Mitra and the other (sc. Varuṇa) and Varuṇa and the other (sc. Mitra)'. Each dual form was inflected independently. Side by side with them, however, we find *mitrá-várundabhyam mitra-várundayōṣ*, which should be compared with such forms as *dvā-daśabhiḥ trayō-daśabhiḥ*. In these the process of composition is complete, and the same may be said of the new compounds formed on the model of those whose first member is a dual form ending in *-ā*, as *agnīviṣṇū* 'Agni and Vishnu' (Ath.-Vēda) instead of *agnī-viṣṇū* (cp. *agnī-śōmā* in the Rig-Veda); which is shewn also by the substitution of *-ā-* for *-a-*, as the termination of the first member, on the analogy of Class I; as *parjānya-vātā* beside *parjānya-vāta* 'rain-cloud and wind'. (Cp. also the derivatives in *-vant-*, *mitrá-várundā-vant-* 'accompanied by Mitra and Varuṇa'.

The compounds *pitā-putrāu* 'father and son' *mātā-pitarau* 'mother and father' *hōtā-pōtārau* 'summoner and purifier' must have been preceded by older phrases such as *pitā putrah*, *mātā pitā*, *hōtā pōtā*, which did not receive the dual inflexion until the process of composition was complete. Cp. O.C.Sl. *bratī-sestra* § 47.

When *anyō-nyam* and *paras-param* 'alter alterum' had become compounds, the inflexion of the initial member was dropped and the form of the nom. sing. masc. was applied to all the cases; hence e. g. *anyōnyām* 'altera alteram' instead of **anyā anyām*, *tuyōh . . . kāmō 'bhāt . . . anyōnyam prati* (Nala 1, 17) 'eorum (in eis) amor enatus est alterius in alterum' instead of **anyasya anyam prati*. Cp. Gr. *ἀλλήλων* § 32, Mid.H.G. *ein-ander* § 44 and Lith. *kits kītą* § 46.

§ 25. Iranian.

Class I. Stems in *-o-*. Avest. *ver'pra-ja-* 'victorious': Skr. *oṣtra-hān-*. Avest. *yuxta-aspa-* and *yuxtāspa-* 'for whom steeds have been yoked': Skr. *yuktā-aśva yuktāśva-*. Avest. *srīraozšan-* (proper name) = *srīra* + *uzšan-*. O.Pers. *xšāša-*

pāvan- 'guardian of the land, satrap': Avest. *xšāpra-* Skr. *kṣatrā-* 'lordship, kingdom'. O.Pers. *xšayāršan-* (proper name) = *xšaya-* + *aršan-*. Sometimes *-ā-* is found in place of *-a-*, as Avest. *aša-dā* 'giving what is pure', acc. *ver'pra-janem* beside nom. *ver'pra-ja-*, O.Pers. *ariyā-rāmna-* (proper name), perhaps also *uua-maršiyu-* 'dying by suicide' (cp. Avest. *xwa-daēna-* 'having one's own faith'); on this point see § 22 Rem. In Avestic *-ō-* is often found instead of *-a-*, the form of the nominative being used instead of the stem (cp. the Author, Curt. Stud. IX 269, Bartholomae, Die Gāpā's 81); e. g. *daēvō-dāta-* 'made by the demons' (beside *daēva-yāza-* 'demon-worshipper'), even where the *o*-stem was neuter, as *xšāprō-dah-* 'bestowing lordship' (nom. *xšāpre-m*). This *-ō-* spread still further; see below.

Stems in *-ā-*. Avest. *daēnā-vazah-* (proper name), from *daēna* 'faith'. At the same time we have forms with *-a-*, Avest. *gaḍa-vara-* 'wielding the club' (*gaḍā-*) etc. (see § 12 p. 24 f.) and with *-ō-* instead of *-a-*, compounds like *daēnō-disa-* 'teacher of the law'.

Stems in *-i-* and *u*. Avest. *āzi-ciḥra-* 'sprung from the serpent', *pri-ayara-* 'space of three days'. Avest. *pouru-nar-* 'rich in men', *urv-apa* 'with broad stream', *per'pu-ainika-* 'with wide front', O.Pers. *parūv-zana-* (read *paruzana-*) 'rich in people'. Here too we sometimes find in Avestic the form of the nominative in place of the simple stem: e. g. *nasuš-pacya-* 'burning of corpses' or 'arising in the burning of corpses', *bazuš-aojah-* 'strong-armed', *vawhuš-dāta-* 'well made'.

Nasal stems. Avest. *ašava-frazanti-* 'pious offspring' from *ašavan-*. Forms with *-ō-* instead of *-a-* on the analogy of the *o*-stems: Avest. *bar'smō-zasta-* 'holding twigs for offering in the hand' from *bar'sman-*. Avest. *zem-fraḥah-* 'encompassing the earth' from *zam-*.

Stems in *-r-*: Avest. *stehr-poçsah-* 'adorned with stars'. *ner'-bar'zah-* 'man's height': Skr. *ṛṣ-bahū-ṣ* 'man's arm'. Compounds in which the strong form of the stem is inserted: *nar'-gar-* 'devouring men', *atar'-carana-* 'belonging to fire', with others like them; cp. dat. abl. pl. *star'-byō* beside *ner'-byō*. The form

of the nom. sing. has replaced the simple stem in *atarš-cipra-* beside *atarš-* *cipra-* 'sprung from fire, combustible'.

Stems in *-nt-*. Avest. *raēvas-cipra-* 'of splendid family' (-sc- for -tc-, see I § 473 p. 349) from *raēvant-*. O.Pers. *dāraya-vau-* (proper name) 'possessing property' (gen. *dāraya-vahanš*) for **dārayad-vahu-*; cp. Skr. *dhārayat-kṣitiṣ* 'sustaining the races of mankind'; cp. Hübschmann, Kuhn's Ztschr. XXVI 603 f.

Avest. *viš-pati-* 'lord of a village': Skr. *viś-pāti-* §. *zur-z-dah-* 'giving the heart' with -zd- for -d + d- (cp. I § 476 p. 351), from *zar-d-*; Skr. *hṛd-*.

As examples of the nominative used in place of the simple stem we may notice here Avest. *vārš-aēša-* 'the desire of the hymn' (stem *vāc-*), *afš-cipra-* 'sprung from water' *awē-dātu* 'resting in water' (stem *ap-*), *kerfš-xwar-* 'eating flesh' (stem *kehrp-*).

Stems in *s-*. Avest. *vacas-tašti-* 'preparation of words, text', *temas-cipra-* 'sprung from darkness', *nogaz-dastema-* 'most helpful'. Compounds with -ō-, which was taken from the nom. sing., are *ayō-zaya-* 'with iron weapon' *ayō-ver'pra-* 'with offensive weapon of iron' *ayō-ayra-* 'iron arrow' (Skr. *ayō'gru-* 'pestle') from *ayah-*; Skr. *āyas-*. O.Pers. *vahyaz-dāta-* (proper name), like Avest. *vanhaz-dāh-* 'giver of the best', beside the comparative Avest. *vanhah-* 'better': Skr. *vāsya-*.

Remark. The student should compare the Avestic use of the nominative form instead of the stem in derivatives made by formative suffixes and even in the simple cases: *srīrō-tara-* 'more beautiful' (*srīra-*), *spentō-tema-* 'most holy' (*spenta-*), like *daerō-dātu*; *hudānūs-tema-* 'wisest' (*hu-dānu-*) like *nasūs-paēya-*; dat. abl. *vāyž-byō* from *vāc-* like *vārš-aēša-*. Cp. § 13 p. 29.

§ 26. Class II. Avest. *a-yru-* 'not pregnant, virgin': Skr. *ā-gru-*; O.Pers. *a-kšata-* 'uninjured': Skr. *ā-kṣata-*; Avest. *an-ašavan-* 'impious': cp. Skr. *án-ṛta-*. Avest. *duš-manah-* 'thinking ill' Skr. *dur-manas-* Gr. *δυσ-μενής*. The Idg. **su* 'well' (Avest. *hu-ber'ta-* O.Pers. *u-barta-* 'well born, well cherished': Skr. *sū-bhṛta-*), the opposite of Idg. **dus-*, appears in Avestic, just as in the Veda, as an independent word (*hu*).

Class III. Avest. *upa-yata-* 'subaetus, married': Skr. *ūpa-yata-*. O.Pers. *fra-tarta-* 'drawn away': cp. Skr. *prá-tīṛṇa-*.

Avest. *paiti-biši-* 'directed against the enemy, conquering the enemy'. *antar-daēyu-* adj. 'within the country'. *pairi-daēyu-* 'lying around the country'. *upāpa-* 'adj. in the water'.

§ 27. Class IV. The use in Avestic of the form of the nom. sing. instead of the simple stem, as in *daēvō-data*, has been spoken of in § 25 p. 42.

The Avestic adjectives *aērōmainyava-* and *spētōmainyava-* were no doubt formed from the phrases *aērō mainyuš* 'the evil spirit' and *spētō mainyuš* 'the holy spirit': cp. Skr. *pītamahī* § 24, Gr. *Νεαπολίτης* § 32. O.Pers. *aura-mazdā* (with acc. *aura-mazdām*) 'Ormuzd' should be regarded merely as a concretion of two nominative forms, not a compound of two stems (*aura-* 'lord', *mazdāh-* 'wise one'): Avest. *ahurō mazdā*.

Avest. *drujīm-vanant-* 'overcoming the fiend' (acc. of *druj-* f.). *vīren-jan-* with the acc. sing. beside *vīra-jan-*, see § 20. *ahūm-mer'nc-* 'life-destroying' with the acc. sing., beside *ahu-mer'c-*. *vīspā-hišant-* 'able to do everything' (acc. pl. neut. of *vīspa-*). *dūraē-fradāta-* 'made in the distance' (loc. of *dūra-*). *raḫae-štar-* 'standing in the chariot (loc. of *raḫa-*), warrior': cp. Skr. *śavyē-ṣṭhar-* 'standing on the left', *-ṣṭhar-* for **st-tar-*, see I § 316 p. 255. Epithetised compounds: *dar'yem-jīti-* 'having one's life long' (acc. sing. neut. of *dar'ya-* used adverbially), long-lived'; *z'mas-ciḫra-* 'having an earthly origin' (*z'mas-* gen. of *zam-*); *aḫrae-raḫa-* (proper name) 'whose chariot is at the head' (loc. of *aḫra-*).

Avest. *aēvan-dasa-* 'undecimus' from **aēvan-dasa-* 'undecim'; the first half of the word is no doubt *aēvem*, the form of the neuter and of the masculine alike.

Combinations of two dual forms occur in Avestic as in Sanskrit (§ 24 p. 41), e. g. *ahura miḫra* and *miḫra ahura* 'Ormuzd and Mithra', *apa urvairē* 'water and plants' (*ap-* 'water', *urvair-* 'plant'), *pasu vīra* 'cow and man'. But the fusion of these elements is not by any means so close as it is in Sanskrit,

since the first member always retains its own inflexion, e. g. dat. *ahuraēibya miḫraēibya*. Cp. Bartholomae, Bezzenberger's Beitr. X 267 ff., XIII 57 f.

Armenian.

§ 28. Class I. Here the Indo-Germanic differences in the termination of the stem of the first word were largely obliterated. Where the second member begins in a consonant we find an *-a-*, the so-called 'vowel of composition', whose origin is as yet unexplained.

Compounds in which the second member begins in a sonant: *dr-and* 'door-post, threshold' from **dur-*, pl. *durk*. *hair-anun* 'having one's father's name' from *hair*, gen. *haur*. *skesr-air* 'mother-in-law's husband, father-in-law' from *skesur*, gen. *skesri*. *hing-ameay* adj. 'of five years', from *hing*.

Compounds in which the second member begins in a consonant: *dr-a-kiē* 'door-companion, neighbour'. *lsn-a-goin* 'whitish' from *lusi*, pl. *lusun-k*, 'λευκώματα' and *goin* 'colour'. *lus-a-vor* 'clear' from *lois*, gen. *lusoy*, 'light', *-vor* being a suffix which corresponds to the Gr. *-φόρος* 'bringing'; a later compound is *lus-a-ber* 'light-bringing, enlightener' (cp. I § 485 p. 358 for an account of Idg. *bh*). *ms-a-ker* 'eating flesh' from *mis*, gen. *msoy*, 'flesh'. *mi-a-cin* 'unigenitus', from *mi*, gen. *mioj*, 'one'. Combined with the termination of stems in *-iō-*, *-a-* became *-e-*, e. g. *age-vor* 'wearing a tail' from *agi*. This *-a-* was even introduced into compounds whose first member was the case of a noun; see below, Class IV.

Remark 1. This vowel of composition, *-a-*, no doubt formed the original ending of some one form or set of forms when used as the first member of a compound, and then became general. Phonetic laws, however, forbid our assuming that this represents the Idg. suffix *-o-*. I conjecture that it first occurred in words borrowed from the Iranian (e. g. *bar-a-pan* 'doorkeeper' = O.Iran. **dvāra-pāna-* or **dvāra-pāna-*), and thence spread further by analogy. Compare the *-o-* borrowed from the Greek in Latin compounds like *albo-galērus*, § 34.

Remark 2. It is not clear whether such compounds as *stu-di* 'sucking the breast, suckling' (*stin*, gen. *steun*, 'woman's breast') *akn-kal* 'in one's

eye, visible' belong to Class I, but have never had the composition-vowel *-a-*, or whether they contain case-forms (Class IV).

Class II. *an-ban* 'carens ratione et verbo': cp. Gr. *ἄ-φωνος*; *an-kin* 'without a wife, widower': cp. Gr. *ἄ-γυνος*; *an-anun* 'ἄ-ώνυμος'; *an-arg* 'unhonoured'. *t-gēt* 'not knowing' (beside *an-gēt*): Skr. *dur-vēda-* 'unlearned'; *t-zōr* 'not mighty, weak' (beside *an-zōr*). Its opposite, *h-* = Skr. *sú* 'well', is found only in composition; e. g. *h-zōr* 'excellent in strength, mighty'.

Class III. Excluding *ni-st*, which has become a simple word (§ 15 p. 30), I know of no compounds containing prepositional words that are certainly proethnic. I strongly suspect that *ham-* 'with, together' (e. g. *ham-dart* 'quiet, soft': cp. Skr. *sq-dhṛta-*; *han-dēs* 'proof': cp. Skr. *sq-džša-* 'information') was borrowed from Iranian (Avest. *ham-*).

Class IV. *haur-elbair* 'father's brother', *haur* gen. sing. of *hair*. *diuē-azn* 'divine race, he who is of divine race, demigod, hero', *diuē* gen. pl. of *deu*, which was borrowed from Iranian. The vowel of composition, *-a-* (see above, Class I), is inserted e. g. in *arē-a-kin* 'husband's wife', *arē* gen. sing. of *air*; *mels-a-sēr* 'loving sins', *mels* acc. pl. of *mel*.

air-ev-ji 'man and horse, knight' sometimes inflected both of its parts, e. g. gen. *arē-ev-jiōy*, sometimes only the final noun, gen. *air-ev-jiōy*; cp. Mod.H.G. *der wert deines grund und bodens*, 'the value of your estate'.

Greek.

§ 29. Class I.

Stems in *-o-*, where the second member began in a consonant, had *-o-*: *ἀγρο-νόμος* 'dwelling in the country' (*ἀγρό-ς*). It must be left an open question whether the *-ε-* in such compounds as *Ἀγέλαος* (from *ἀγρό-ς* 'guide') *ἀρχέ-πολις* (from *ἀρχό-ς* 'governor') was derived from Indo-Germanic stem-forms in *-e-*, or whether it was substituted by the Greeks for an older *-o-* in consequence of the association of the first member with a verbal stem (for which see § 30).

Where the second member began in a sonant, elision was

the rule (I § 600. 603 p. 457): *ἰππο-αγωγός* 'transporting horses' (*ἵππο-ς*). This elision dates from the proethnic period of Greek, and the type then established gave rise later to such forms as *καχιζία* 'ill condition' (*έχω* for **σεχω*, I § 564 p. 421) *φιλ-εργός* 'loving work' (*εργον* for *φίεργον*, I § 164 p. 145), by the side of which we also find phonetically regular forms like *ῥαβδοῦχος* 'holding a staff' (for **ῥαβδο-(σ)οχος*) *κακο-εργός* *κακοῦργος* 'doing evil'. Forms like *ἀραχνο-ῥαφής* 'woven by spiders' (Philo) are obviously new formations of a later date; cp. Lat. *multi-angulus* § 34. Goth. *galinga-apauštauulus* § 40.

The stem-final *-o-*, as we shall soon see, was extended from *o*-stems to others of the most widely different classes; monosyllabic stems were least affected by the tendency (e. g. *χέρωνψ*, *πυγ-μάχος*; see below).

-ā- (Ion. Att. *-η-*) often appears instead of *-o-*; e. g. *θαναρ-η-φόρος* beside *θαναρ-ο-φόρος* 'death-bringing' (*θάνατο-ς*), *ὀμβρη-γενής* 'rain-born' (*ὄμβρο-ς*).

Remark. This *-a-* appears side by side with *-o-* even where the latter was due to form-association, as *ἀσπιδ-η-φόρος* beside *ἀσπιδ-ό-δουπος* stem *ἀσπίδ-*, see below.

As regards the origin of this *-a-*: the wide extent of its usage is certainly due to the action of analogy, and it is conceivable that its origin is to be found 1. in forms like *ναῖ-γενής* (*νη-γενής*) *ὀλιγ-πελίων*, which contained adverbs like Dor. *ἄμα ἄμῃ*, *κρυῖα* (Westphal, Meth. Gramm. II 8 f., Mahlow, Die lang. Voc. A E O 131 f.); 2. in a number of instances where *ā-* and *o*-stems existed side by side; 3. in such compounds as *νίκη-φόρος* *βουλη-φόρος*, *αἰθερη-γενής* *μοιρη-γενής*, the terminations *-ηφόρος* *-ηγενής* being regarded as indivisible and thus coming into general use; just as in Attic, compounds like *ῥαβδοῦχος* (*ῥαβδο-ς*) and compounds like *κακοῦργος* (*κακό-ν*), being virtually analysed *ῥαβδ-οῦχος* *κακ-οῦργος*, gave rise to new formations, *πολι-οῦχος* *παν-οῦργος* and the like; and just as femininea from *n*-stems, such as *τίκταινα* i. e. **τεκταν-να* (from *τίκτων*), suggested new formations like *λύκ-εινα* (from *λύκο-ς*) (§ 110). I feel certain that a great part at least of the instances where *-a-* is found in place of *-o-* are to be explained in this last way. Cp. also *-ηει*; (*-a-fert-*) in § 127.

Stems in *-ā-*: followed by those whose nom. sing. ends in *-iā* (§ 109). *νίκη-φόρος* 'bringing victory' (*νίκη*). *ὕδρια-φόρος* 'bearing a water-vessel' (*ὕδριā*). Ion. *μοιρη-γενής* 'born to good fortune' (*μοῖρα* for **μοριā*). By the side of *-ā-* there are a few

instances of *-a-*; as *Ἀλά-θους*, *τιμωρός* for **τιμα-αρος* 'guarding a man's honour, protecting, helping' (Wackernagel, Kuhn's *Ztschr.* XXVII 263, XXVIII 132); the historical relation of *-a-* to *-ā-* is obscure. *-o-* frequently appears instead of *-a-*: *Νικό-μαχος*: *νίκη*; *πολίτο-φθόρος* 'destroying the citizens': *πολίτη-ς*; Dor. *ἑστιο-πάμων* 'house-owner': *ἑστία*; *ἀελλό-πος* 'storm-footed': *ἀέλλα*. The influence of *o*-stems is seen also in the loss of the final vowel of the stem when the second member begins in a sonant, e. g. *Νίχ-ιππος*. Cp. § 12 p. 24 f.

Stems in *-ī-* and *-ū-*. An original type of formation may be preserved in such compounds as *σύν-αγχος* 'choking swine' (*συν-ς*). Cp. § 12 p. 25. Where the second member begins in a consonant we find the vowel short, thanks to the analogy of the preceding group: e. g. *σύν-γορβός* 'swineherd'; in the same way we have loc. pl. *συν-σί* for **συν-σι* following *συν-ός* *συν-ών* etc., see § 160, 4. Some forms insert *-o-*: *ν-ο-μουσικά* 'swine's music' *συν-ο κτόνος* 'killing swine', *ἰχθυ-ο-φάγος* 'eating fish' beside *ἰχθυ-φόλος* 'striking fish': *ἰχθυ-ς*.

Stems in *-ī-* and *-ū-*. *μάντι-πόλος* 'busied with prophecy': *μάντι-ς*. *βοτρί-άνθηρα* f. 'nourishing men': **βώτρι-ς* 'act of nourishing'. *ἄστυ-ρείτωρ* 'living near the city': *ἄστυ*. *πολυ-ανθής* 'with many blossoms': *πολύ-ς*. Cp. § 12 p. 25. With *-o-*: *φυσι-ο-λόγος* 'investigator of nature': *φύσι-ς*.

ναυ-πηγός 'shipbuilder' for **nāu-* (I § 611 p. 461): cp. Skr. *nāu-para-s* 'going by ship'. From such forms *nav-* came to be used even where the following member began in a sonant, e. g. *ναύ-αρχος* 'ship's commander', instead of *νᾶ(f)-* (cp. Lat. *nāv-igō* § 11), which is contained in *Νέαρχος* if this is for *Νέαρχος*, from **Nη-αρχος* (cp. I § 611 ad fin.). Examples of inserted *-u-*: *νη-ο-σώος* 'preserving ships', which may be compared with *βο-ό-κληψ* 'cattle-thief' (*βο-η-νίμος* 'pasturing cattle') beside *βου-νίμος*; hence the correspondence of *νηο-βου-* with the Skr. forms *nāu- gava-*, which appear as the initial members of compounds, is an accident.

Stems in *-n-*. With *α* = Ing. *ψ*: *ὀνομα-κλυτος* 'with famous name'. We should no doubt compare *κυνάμνια* 'dog-fly'; the regular

form would be **κνα-μνα*; the *-v-* came from forms like *κνν-ός κνν-ηγός*; **κνα-* = Skr. *śuva-* (instr. pl. *śuvā-bhiḥ*) Idg. **kuṃṃ-*. It is questionable whether such compounds as *κνν-ῶπις* 'dog-eyed' are the immediate representatives of any original type of formation.

With *-o-* instead of the *n*-suffix: e. g. *κτό-κρᾶνο-ν* 'capital of a column'. See § 12 p. 27.

Compounds in which we have a strong form of the *n*-stem are a new formation in Greek. If their second part began in a consonant, *-o-* or *-ā-* was inserted. *φρεν-ο-μανής* 'mad'. *κτον-ό-κρᾶνον* beside *κτό-κρᾶνον* (see above). *ῥην-ο-φορεῖς* 'bearing a sheepskin'. *ἄγων-ο-θέτης* 'director of a contest'. *λιμεν-ή-οχος* 'closing in the harbour' (cp. *πολι-ά-οχος*) beside *λιμεν-ο-σκόπος* 'watching the harbour'. *ἀκτίν-η-βολία* 'the shooting of rays' beside *ἀκτίν-ο-βολία*. Probably the only example without *-o-* (*-ā-*) is *φρέμ-πᾶρος* 'with impaired understanding' Hesych. (the correct spelling is due to Lobeck), which appears beside *φρεν-ο-μανής* and the like as *μελαγ-χροαῖς* *μελάγ-χροος* beside *μελαν-ό-χροος* 'with dark skin' (*μέλας* gen. *μέλαν-ος*, compar. *μελάν-τερος*), cp. also *χέρ-νιψ* beside *χερ-ό-νιπτρον* p. 50. Where the second member begins in a sonant: *φρεν-ώλης* 'distracted in mind'; *τεκτόν-αρχος* 'presiding over the artificers'; *ἄγων-ἀρχης* 'director of the contest'.

ἄ-παξ 'once': Skr. *sa-kṣt* 'once', Idg. **ση-*. *χθον-ο-τροφής* 'nourished by the earth', beside Skr. *kṣam-*, a new formation like *κτον-ό-κρᾶνον*; as to *v* instead of *μ* see I § 204 p. 172 and below, § 160, 2.

Stems in *-r-*. Whilst the Indo-Germanic type was faithfully followed where the second member began in a sonant, e. g. *πατρ-ωνύμιος ἀνδρ-άγρια* (§ 12 p. 28), where this began in a consonant it was the rule to insert *-o-*, as *πατρ-ο-φόνος* 'patricide'. This was preceded by a form **πατρα-φονος*, cp. loc. pl. *πατρά-σι* and Skr. *pitṛ-śrāvana-s*. Thus we still find *τετρά-γνος* = Idg. **qetw-*, where *α* was preserved by the parallel compounds with *ἐπτα-* etc.¹⁾ The strong form of the stem is

1) I no longer compare the first part of the pl. *ἀνδρά-ποδες* with Skr. *ṇṛ-* (G. Meyer, Gr. Gr.¹ p. 23), but I regard the word as a new formation. Brugmann, Elements. II.

often found instead of the weak, as ἀστέρ-ο-ειδής 'star-like' from ἀστήρ ἀστέρος; this is regular in *nomina agentis* such as λαμπτήρ-ο-φόρος 'bearing lights' (λαμπτήρ) ῥήτορ-ο-διδάσκαλος 'teacher of rhetoricians' (ῥήτωρ); the original type is shown by Skr. *hōtṛ-śādāna-m* 'seat of the offerer' (*hōtar-*); see § 120. Monosyllabic ρ-stems sometimes have and sometimes have not -ο- or -ᾱ-: χέρ-ων 'water for washing the hands' and χερ-ό-νιτρον χερ-ό-νιτρον wash-hand basin' (for the etymology of χείρ cp. § 132), πυρ-καίη 'burning-place' and πυρ-ο-ειδής 'fire-like' πυρ-η-τόκος 'producing fire'.

Stems in -ντ- show here as in their declension (§ 125. 126) their strong instead of their weak form. δρακοντ-ό-μαλλος 'with snaky locks', the weak form of the stem being *δρακατ-. ὀδοντ-ο-φυής 'sprung from teeth'. γιγαντ-ο-φόνος 'killing giants'. παντ-ο-μίσής 'all-hateful'. Before sonants: πάντ-αρχος 'all-governing'.

Stems ending in other explosives. πυγ-μάχος 'pugilist'. ποδ-ώκης 'swift-foot, swift-footed'. These usually have -ο- or -ᾱ-: φλογ-ο-ειδής 'flame-like'; νιφ-ό-βολος 'pelted with snow'; ἀσπιδ-ό-δουπος 'clattering with shields' ἀσπιδ-η-φόρος 'shield-bearing'.

Stems in -s-. μῦσ-φόνος 'killing mice': Lat. *mūs-cipula*.

es-stems have -εσ- in poetic diction, as ἐπες-βόλος 'hurling words, speaking boldly', ἐγχες-φόρος 'spear-bearing'. At the same time we find -ο- instead of -εσ-, sometimes even in Homer, and regularly in prose: ἑρμ-κόμος 'spinning wool', ἐπο-ποιός 'epic poet', ἀληθ-ό-μαντις 'prophet of truth'; similarly ψευδ-ᾠγγελος 'messenger of falsehood', where the second part begins in a sonant. -ο- for -εσ- no doubt arose from the similarity of the nominative forms, ἔπος: ἑππο-ς. Examples with -ᾱ- instead of -ο-: ξιμη-φόρος 'sword-bearing' (beside ξιφο-φόρος), θυη-πόλος 'busied with sacrifice'.

mation modelled upon τετραπόδα (Iw. Müller's Handbuch II 70 Rem. 1). Of course it is conceivable that this form arose at a time when *πατρα-φονος was still spoken and that afterwards the -α- in ἀνδρα-ποδ- remained because it was supported by the -α- of τετρα-ποδ-. Cp. also Wackernagel, Kuhn's Ztschr. XXX 298.

Stems in *-ασ-* were treated in much the same way. *σελασ-φόρος* 'light-bringing', *κερασ-φόρος* 'horn-bearing' (cp. Skr. *jyōtiṣ-pakṣa-s* 'winged with light', § 134, 2). At the same time we find forms with *-ο-* *-ᾱ-*, as *κερο-φόρος*, *κρεο-δόχος* and *κρη-δόκος* 'holding or containing flesh'. There is no example amongst *-es-* stems analogous to Hom. *κερα-ο-ξός* 'worker in horn' (with regard to the apparently similar Hom. *ἐλεό-θρεπτος* beside *τὸ ἐλος* see p. 34 ff. of R. Schroeter's treatise cited on p. 22).

§ 30. From the phrase *καλὸς κάγαθός* was formed the abstract substantive *καλοκάγαθία* 'character of a *καλὸς κάγαθός*'. Cp. O.C.Sl. *osmo-na-desetŭ* § 47 and the use of the bare stem in Mod.H.G. phrases like *freund- und verwandtschaft*, *gold- und silberschmid*.

In Greek, as in Germanic and Slavonic (§ 41. 47), a large number of compounds came to be regarded in a new way. Their first member now appeared to the popular consciousness to have a verbal instead of a nominal force. This gave rise to many new formations in which real verbal stems were employed as the initial members of compound words.

Thus *τανύ-γλωσσο-ς*, whose meaning originally was 'with outstretched (adj. **τανύ-ς* = Skr. *tanú-ṣ*) tongue', was explained to mean 'stretching out the tongue' (and compared with *τάνυ-ται*), *φιλό-ξενος* 'to whom a stranger or guest is dear (*φίλος*)' was explained as 'loving one's guest' (and compared with *φιλέω*), *φυγο-πόλεμος* 'unfriendly (**φυγο-ς*: cp. Lat. *lūci-fugu-s*) to war' as fleeing from war' (and compared with *ἐφυγο-ν*), and so forth. Hence arose new formations like *μισό-ξενος* (first modelled upon the form *φιλό-ξενος*, cp. *μισέω*: *φιλέω*) 'hating a stranger', *φαινο-μηρίς* 'showing the hips' (*φαίνω*), *ἐθελό-πονος* 'willing to work' (*ἐθέλω*). As to the *-ε-* of *Ἀγέ-λαος*, *ἀρχέ-κακος* etc. see § 12 p. 24, § 29 p. 46. If this is not the *e*-form of the suffix, and so derived from the pre-Greek period, we must assume that it was borrowed from forms like *ἄγε-ι ἄγε-τε* when the first part of such compounds came to be regarded as a verbal stem.

New formations of all kinds were introduced by compounds like *τερψί-μβροτος τάνυσι-πτερος ἄρκεσι-γυιος*, the initial members of which were abstract nouns formed with the suffix *-ti-* (§ 100) *τέρψις* 'delight' *τάνυσις* 'outspreading' *ἄρκεσις* 'help, strengthening', because these were associated with the aorists in *-σ-* (*ἔτερψα ἐτάνυσα ἤρκεσα*), and were consequently regarded as having a verbal force, 'delighting men' 'spreading the wings' 'strengthening the limbs'. The new verbal signification was all the more easily established in these forms because of compounds like *φυγο-πτόλεμος*, whose first member had been identified as an aorist-stem at an earlier stage of Greek. Thus in the first place, where the abstract noun and the *σ*-aorist showed different grades of ablaut in the root-vowel, that of the latter was introduced: by the side of *στασί-αρχος* (*στάσις*) arose *Στησί-χορος* 'bringing on the chorus' (on the model of *ἔστησα*); *φθισί-μβροτος* 'destroying men' (on the model of *ἔφθισα*) as contrasted with *φθίσις*. Next, the connexion of these aoristic compounds in the mind of the speaker with such others as *λειπο-ψῆχέω φυγο-πτόλεμος ἀρχέ-κακος φυγ-αίχμης* led to an imitation of the ending seen in the initial members of these latter forms. Hence compounds like *λειψό-θριξ* 'having lost one's hair' *περσέ-πολις* 'destroying cities' *Στησ-αγόρης* (contrast *στασί-αρχος* from *στάσις*). But on the other hand the *-ι-* of compounds in *-σι-* crept into compounds whose initial member was the stem of a present or a strong aorist. Hence such forms as *ἀλέξι-κακος* 'keeping off harm' (*ἀλέξω*) *λαθι-κηδής* 'forgetting care' (*ἐλαθον*, cp. *λησί-μβροτος*). This process of mutual assimilation may have been aided by the double type of the *σ*-aorist, *ἔδειξα* and *ἔξον* existing side by side. Many other new formations were caused by the association of these *-σι-* compounds with those of Class IV whose initial member was a loc. pl. in *-σι*, as *ὄρεσι-τροφος* 'reared on the mountains'; see Osthoff, *Verb. i. d. Nominalc.* 193 ff. Lastly, we must notice certain other new formations: *Πρωτεσί-λαος* (beside *Πρωτό-λαος*, from *πρῶτος* 'first') formed on the model of *Ἀγεσί-λαος Ἀρεσί-λαος* and the like, and *Ἐρησι-λεως*

Ἑρμῆσι-άναξ *Ἑρμῆς-ανδρός* (from *Ἑρμῆς*) modelled on such forms as *Ἀγῆσι-λάος* *Ἥγησι-άναξ* *Ἀγῆς-ανδρός*.

§ 31. Class II. *ἄγνωτος* 'unknown': Skr. *á-jñatas* Lat. *īgnōtus* for **in-gnōtus* (I § 506 p. 370); *ἄνυδρος* 'waterless': Skr. *an-udrā-s*. On the analogy of forms like *ἄνυπνος* 'sleepless' *ἄνυνος* 'wineless', in which the hiatus was due to the loss of some consonant (the older forms were **ἄσνυπνος*, **ἄσυννος*, though the latter can hardly have been developed regularly from a pre-Greek form **η-μοῖνο-*, see I § 225 p. 193), there were formed several other compounds like *ἄσδυμος* *ἄσζος* (with *ὀδ-* cp. Lat. *od-or*; *ὄζος* = Goth. *asts*) by the side of the forms *ἄν-οδυμος* *ἄν-οζος* which are also found. *δύσ-τορος* 'hard to bear'; cp. Skr. *dur-bhara-s* 'hard to bear, to nourish'.

Class III. *ὑπό-θετος* 'placed under' *ὑπό-θεσις* 'groundwork, foundation': Skr. *úpa-hita-s* 'placed under, situated' Lat. *sub-ditus* *sub-ditiō* (*sub-* for **x-ub-*? see I § 568, 2 p. 424, II § 2 p. 3).

πρὸς-έσπερος 'towards evening': Skr. *prati-dṣā-* 'towards evening'. *παρά-βακτρος* 'situated near one's staff', *παρά-νομος* 'contrary to law'. *ἀνά-λογος* 'corresponding to λόγος'. *ἐγ-κέφαλος* 'being in the head, brain'. These compounds generally end in the suffix *-ιος*, as *ὑπ-ασπίδ-ιος* *παρα-θαλάσσι-ος* *ἐν-αγών-ιος*; see § 63.

οὐ-τις 'no one' beside *μή-τις*, no doubt took the place of an Idg. form **ne-qi-s* at the time when **ne* was driven out of use by *οὐ*, a form whose origin is still obscure (cp. § 15 p. 31). Later arose *οὐδ-είς* 'no one' and the like.

§ 32. Class IV. By the side of *δω-δεκα* (§ 16) arose *έν-δεκα* 'eleven' (*έν-* nom. acc. neut.), *τρεῖς-καί-δεκα* 'thirteen', *τετταρεῖς-καί-δεκα* 'fourteen' (nom. pl. masc. fem.); another word for 'thirteen' is the Att. *τρεῖς-καί-δεκα* (acc. pl.), note also the form *τρεῖς-καὶ-δέκατος* 'thirteenth', and others of the same sort.

From *Νέα πόλις* ('Newtown') were formed gen. *Νέας πόλεως* and *Νεᾶπόλεως*, and further *Νεᾶπολίτης*. Similarly *τριτῆμόριος* 'making the third part' was probably based on *τρίτῃ μὲρᾷ*.

Διόσ-κouroi 'sons of Zeus', hence *Διοσκούρειον*, *διός-δοτος* 'given of Zeus', properly 'one given belonging to Zeus' (gen.

of Ζεύς). *νεώσ-οικοι* 'ship's houses, arsenal' (gen. of *ναῦς*). *ὕσ-κύαμος* 'pigs' bean' (gen. of *ῥύς*). *Πελοπόννησος* for *Πέλοπος νῆσος* 'island of Pelops' (cp. I § 565 p. 422 f.). *διτ-φίλος* or *διτ φίλος* 'dear to Zeus' (loc. of Ζεύς). *δορυ-κτητος* 'won in battle' (loc. of δόρυ). *ἐαρί-δρεπτος* 'plucked in spring' (loc. of ἔαρ). *Ἀλκι-μέδων* 'ruling in might' (loc. ἄλκ-ι). *κηρεσσι-φόρητος* 'driven or impelled by the Kêres' (loc. pl. of κήρ). *πᾶσι-μέλων* 'of interest for all' (loc. pl. of πᾶς). *Ἴφι-μέδουσα* (proper name) 'ruling with might' (instr. of ἴς Lat. *vi-s*). *παν-ῆμαρ* 'the whole day' (acc. neut. of πᾶς). *νουν-εχόντως* 'in an intelligent way' (acc. of νοῦς).

This group of forms was considerably enlarged by the employment of case-forms instead of the first stem of the original stem-compounds (Class I). Among mixed formations of this kind are compounds whose final member has survived only in forms belonging to Class I, and no longer exists as an independent word, as *πυλοι-γενής* 'born in Pylos' (loc. of Πύλο-ς), *δορί-μαχος* 'fighting with the spear' (loc. of δόρυ), *Ἴφι-κράτης* proper name (cp. *Ἴφι-μέδουσα* above), *νουν-εχής* 'having intelligence, intelligent' (cp. *νουν-εχόντως* above), *δικαιο-πόλος* 'administrator of justice' (acc. pl. of δίκη, cp. I § 204 p. 171).

As these words were formed not by any real process of composition but on the analogy of already existing compounds, so also were those which never had any but an 'epithetised' meaning; e. g. *ἀερί-οικος* 'having one's dwelling in the air' (*ἀέρι-ι*).

When the termination of the first member was a case-ending whose true character was no longer clearly perceived, it often happened that it was applied to stems with which it properly had nothing to do, as *θεός-δοτος* 'god-given' (also *θεό-δοτος*, from *θεός*) on the analogy of *διός-δοτος*; *Λυκόσουρα* a town in Arcadia ('Wolf's-tail', from *λύκο-ς*) on the analogy of forms like *Κυνόσουρα* ('dog's tail'); *ποισιτροφός* 'nourishing grass' and *ποισίχρους* 'grass-coloured' (from *πᾶ πολή* 'grass, herb') on the analogy of forms like *ὄρεσι-τροφός* and *ἀνθεσι-χρους* (with loc. pl. of τὸ ὄρος 'mountain' and τὸ ἄνθος 'blossom').

A further consequence of the obscuration of the case-ending of the initial member, was the use of this ending in

new formations as though it were only the ending of a simple stem, and therefore with no trace of the function properly belonging to the case; e. g. ἀταλά-φρων 'with untroubled mind' (cp. ἀταλα-φρονέων, ἀταλά φρονέων, acc. pl. neut. of ἀταλό-ς), ἀρει-θύσανος 'fimbria Martialis' (cp. ἀρει-φαιος 'slain in war', loc. of Ἄρης), πυρι-ήκης 'with fiery point' πυρί-πνοος 'breathing fire' πυρί-παις 'fire-child' (cp. πυρί-κανστος 'burnt with (in) fire', loc. of πῦρ), Ἀλκί-νοος Ἀλκί-φρων (cp. Ἀλκι-μέδων), χολοί-βόρος 'consuming gall' or 'consuming like gall' (cp. χολοί-βυγος 'dipped in gall' beside χολό-βαφος χολο-βαφής), κηρεσι-φόρος 'death-bringing' (cp. κηρεσι-φόρητος p. 54), ἰχθυσι-ληστήρ 'fish stealer' (ἰχθῦς) etc.

Remark 1. Compounds containing real stems in -ι-, as ἀντι-πόλος, may also have given the appearance of simple stems to initial members of compounds which were locatives ending in -ι- like πυρι-. And in discussing those forms which contain locatives pl. in -αι-, stem-compounds like τεφρα-μύροτος ἀρετι-γυος τανυσί-πτερος (see § 30 p. 52) must not be forgotten. Compare also the fact that the abbreviated form Ἡρι-ς was made from Ἡρι-γένεια Ἡρι-γόνη and the like, whose initial part was the loc. Ἡρι 'early', no doubt on the analogy of Ζευσι-ς: Ζευξί-δαμος; and in the same way the abbreviated form Ἰρι-ς was made from Ἰρι-άνασσα and like, which contained the instr. ἰ-ρι.

It should be observed, however, that a large proportion of the new formations we are now considering are only found in late poets whose diction contains much that is artificial.

The form παν-, found in use as well as παντ-(ο-), is the neut. πάν which stands for *παντ, and was used originally with the force of an adverb in compounds like παν-αίολος 'all-gleaming' πάν-σοφος 'all-wise' πάμ-πρωτος 'quite the first, the very first'. From these forms it spread to others, with the same meaning as παντ-(ο-), e. g. Παν-έλληνες 'the united Hellenes' πάν-δημος 'concerning the whole people' πάμ-μηνος 'lasting through all the months'. παν-ούργος 'clever in any business' followed the type of forms like κακοῦργος i. e. κακο-(F)εργός.

Remark 2. In some combinations, παν- may possibly be the regular phonetic representative of the stem παντ- (cp. χερ- beside χερ-σ- and the like). So much may be admitted; but it seems to me improbable that this was generally the origin of the form.

Other examples with adverbs: ἀκαλα-ρείτης 'flowing quietly'

(acc. pl. neut.), *ἀμα-τροχιά* 'collision of wheels' (instr.), *παλαι-φατος* 'told from of old, foretold' (loc.).

ἐγ-χειρί-θετος 'placed in the hand'; *ἐμ-πυρι-βήτης* 'standing in the fire' derived from the phrases *ἐν χειρὶ θεῖναι*, *ἐν πυρὶ βῆναι*.

ἀλλήλους 'each other', which was used as readily of two single things or persons as of two pairs or two larger contrasted groups, must imply a proethnic Greek phrase **ἄλλος-ἄλλον*, du. *ἄλλω-ἄλλω*, pl. **ἄλλοι-ἄλλους*. **ἄλλᾱλλ-* arose by contraction in the combinations **ἄλλᾱ-ἄλλᾱν* **ἄλλα-ἄλλα*, and then spread through the other cases. Next the dual and plural inflexion was used even where only two single things were spoken of. Lastly *-ἄλλ-* became *-ἄλ-* Ion. *-ηλ-* (cp. Wackernagel, Kuhn's Ztschr. XXX 294 f.). A more detailed discussion may be found in Fleckeisen's Jahrb. 1887, p. 105 ff.

Similarly we have *αὐτοσ-αυτό-* (also *αὐσ-αυτό-*) in the Delphic dialect and elsewhere. Originally the phrase *αὐτοσ-αυτοῦ* was used only in reference to a nom. sing. masc. in the sense of 'ipse sui', with the parallel forms **αὐτᾱ-αυτᾱς* etc. But when the phrase passed into a single word, the first member became incapable of inflexion, and the form of the nom. sing. masc., as occurring most frequently, was used throughout. Hence e. g. Delph. inscr. *κυριεύουσα αὐτοσαυτᾱς* and *κυριεύοντες αὐτοσαντῶν*, Heracl. inscr. *μετ' αὐτοσαντῶν*.

The genuine forms *ποδ-από-ς* *ἄλλοδ-από-ς*, whose etymological structure had become obscured (§ 16 p. 32), gave rise to new formations like *ἡμεδαπός* 'born in our country, countryman' *παντοδαπός* 'of all sorts or kinds, manifold', as though the second member of the compound were *-δαπο-*. The same *δ* occurs in *ὅστις ὅτι* 'who (whoever)' for **σφό-δ τις*, **σφό-δ τι*, see § 4 p. 9.

τοῦτο = **τό ὃ το*, where *ὃ* is a particle = Skr. *ú*. The forms masc. **ού-* and fem. **ού-* = Idg. **só u*, **sá u*, date from the pre-Greek period and perhaps these were pronounced as monosyllables **sóm* **sám* even in proethnic Indo-Germanic: cp. masc. Skr. *só*, O.Pers. *hauv*. Then the neuter *τό* was added to these with the force of an adverb (cp. O.C.Sl. *kü-to* 'who?') giving the forms **ούτο* **αὐτο* (for **αὐτό*, by the regular change,

I § 611 p. 461) and a new formation *τοῦτο* (instead of **τοδ-υ-το*). Then these forms, whose ending was invariable, were influenced by other pronominal forms whose endings were inflected, and thus we have finally *οὗτος αὐτῶ* etc. Cp. Delbrück, Synt. Forsch. IV 139 f., Osthoff, Morph. Unt. IV 257 f., G. Meyer Gr. Gr.² p. 396.

The phrase *ἐμαυτόν* = *ἐμὲ αὐτόν* 'me ipsum' gave rise in Attic to the new formations *ἐμαυτοῦ ἐμαυτῶ*, while in Ionic *ἐμεωντοῦ* = *ἐμέο αὐτοῦ* (cp. *ταῦτό* = *τὸ αὐτό*) produced *ἐμεωντῶ* and *ἐμεωντόν*.

Italic.

§ 33. In the Italic group, especially in Latin, the practice of compounding noun-stems by the method of Class I survived in popular speech, though only to a small extent. Amongst the Romans it received an artificial stimulus and attained a certain degree of importance through the close adherence of Latin poetry to Greek models. But eminent stylists and grammarians of the classical period recognised the spurious character of words coined on Greek types, and protested against encumbering the language with new formations of this kind. The development of the Fourth Class of compounds, however, was by degrees extended all the more widely for this restriction in Class I. As regards Classes II and III, Italic stands in the same position as the other branches of Indo-Germanic.

§ 34. Class I. We may discuss the Latin forms first.

Stems in -o-. Where the stem-final of the first member was not entirely lost before an initial consonant in the second part, it took the intermediate form of the irrational vowel. Accordingly it usually appears as -i-, e. g. *belli-ger* (beside *bellum*); before labials and before *l* as the sound intermediate between *u* and *i*, e. g. *centu-peda centi-peda*, *magnu-ficus magni-ficus*, *cunu-ligus*. Where -o- appears instead, as in *albo-galērus Ūno-mammia sexcento-plagus* (Stolz, Die lat. Nominalc. 19 ff.), we must assume that it is due to the influence of words borrowed from the Greek, or sometimes to the influence of Gallic (cp.

the Armenian *-a-* in compounds, which — if our conjecture be right — was borrowed from Iranian, § 28 Rem. 1 p. 45) ¹⁾. The final of the stem has completely disappeared in *prīn-ceps* from *prīmo-*, *oin-vorsei* (S. C. de Bacch. 19) from *oino- ūno-*, and some other instances; see I § 633 p. 474. Where *r*, following a consonant, preceded the final vowel of the stem, it sank with the latter to *r*, perhaps as early as the proethnic Italic period, whence the *er* which appears in the historical period of Latin; e. g. *sacerdōs*, which was directly preceded by the form **sācr-dō(t)-s* (see vol. I loc. cit. and Stolz, Wien. Stud. IX 304 f.); such words as *sacru-fex sacri-fex*, *agri-cola* were formed afresh at later period ²⁾, just as *acri-tās* took the place of **acertās*, which would have been the regular form, and *facili-tās* arose by the side of the older form *facul-tās*. Where the second part began in a sonant, the vowel was elided, as *somn-ambulus*, *rēm-ex*, *māgn-animus*, *flex-animus* ('touched to the heart'); such forms as *multi-angulus* (beside *mult-angulus*) came into use later on by analogy (like Gr. ἀγρο-ὄτης, § 29 p. 47) see I § 604 p. 458.

Since compounds like *albo-galerus* cannot count as genuine Latin formations, we are left in doubt whether the *-i-* (*-u-*) of historical Latin stands for Idg. *-o-* or *-e-*. The probabilities however are in favour of the former. Cp. § 12 p. 24.

Stems in *-io-* regularly show *-i-*, as *medi-terrāneus* from *mediu-s*, *offici-perda* from *officiu-m*. Cp. *capis* I § 135 p. 122, also Goth. *arbi-numja* § 40 and the remarks on the gradation

1) The *-o-* of *ho-diē* must be regarded as of genuine Latin origin, if Danielsson (Stud. gramm., Upsal 1879, p. 51 sq.) is right in his explanation of the word; he supposes that an old form **hō-diē* (Class IV) was re-modelled on the analogy of Class I (cp. *multi-modis* § 36), and that the *o* was preserved from being weakened to *-i-* or *-u-* by its position in the accented syllable. But perhaps we ought rather to derive *ho-diē* from an instr. sing. **hō*, with its *ō* shortened on the analogy of *modo* and similar words (cp. *quo-que*). A third derivation is suggested by L. Havet, Mém. de la Soc. de Lingu. IV 229 sq.

2) *sacerdōs* was not transformed into **sacridōs*, because its component parts had ceased to be clearly recognised.

of the suffix *-iō-* which will be found in § 63. If this *-i-* stands on the same footing as the *-r-* of **sacr-dōs* (see above), the derivative *sociē-tās* (from *sociū-s*) must bear the same relation to the above mentioned compounds as *sacri-fex* to *sacer-dōs*. *Med-amna* 'Μεσονοτιά' follows the analogy of *māgn-animū-s* (see above). *trit-avo-s* then might be referred either to a form **trit-iō-* (cp. *tertiu-s*, Avest. *pritya-* etc.) or to **trito-* (cp. Gr. *τρίτο-s*).

-i- corresponds in Latin to the *-o-* which serves in Greek as the 'vowel of composition' after most consonantal stems, cp. e. g. *ὀδόντ-ο-γενής* 'sprung from teeth' and *dent-i-frangibulus*. It seems probable that the Lat. *-i-* here sometimes represents the Idg. *i* of *i-stems* (cp. *igni-fer* from *igni-s*), especially when we consider how frequently the consonantal stems pass into the *i*-declension, e. g. *nāv-i-s* and *dent-i-bus dent-i-um* § 93 (Italic). Then e. g. *nāv-i-fragus* (beside the older *nau-fragus*) will have been formed from *nāv-i-s*, that is from an *i-stem*.

Stems in *-ā-*. *-ā-* is hardly to be found except where the second member has sunk to the level of a suffix: *fabā-ginus*, cp. *fabalis fabāceus*; *oleā-ginus -gineus*. Elsewhere the forms are treated like the *o-stems*. *tubi-cen : tuba*; *aqui-dūcus : aqua*. *tubu-lūstrum* and *tubi-lūstrum : tuba*. *-o-* (a Grecism): *viocūrus : via*; *blatto-sēricus : blatta* (cp. *holo-sēricus*). *glōri-ficus : gloria* like *offici-perda*. The *i* of *tibi-cen (: tibia)* has not been explained; is it parallel to Skr. *śacī-vasu-ṣ*?

Stems in *-i-* and *-u-*. *angui-cornis : angui-s*. *tri-dēns : dat. tri-bus*. *morti-fer : gen. pl. morti-um*, Skr. *mr̥ti-ṣ*. The disappearance of the final *-i-* of the stem in *fūn-ambulus* from *fūni-s* is to be explained as due to the analogy of *o-stems*; *fūni-ambulus* was a later analogical formation like *multi-angulus* (p. 58); cp. also *sēm-ermis sēm-ustus* beside *sēmi-ermis sēmi-ustus* from *sēmi-* = Skr. *saml* 'incomplete, half'. *-u-* occurs in *u-stems* only before labial sounds, as in *acu-pediū-s* (cp. Gr. *ὠκύ-ς* 'swift') *manu-festus (manu-s)*, and since in such instances *i* is sometimes written as well as *u* (*mani-festus*) the sound must have

been intermediate between *u* and *i* (I § 49 p. 41 f.). Thus the *u*-stems also were treated in the same way as those in *-o*.

nau-fragus, like Gr. *vav-πηγός*, is no doubt a complete, not a syncopated form; *nāv-igō* is of the same kind, cp. § 11 p. 24; *nāv-i-fragus* and *nāv-i-ger* are new formations. Similarly we have *bū-caeda* and *bop-i-cīdium*: cp. Gr. *βov-* and *βο-ο-* § 29 p. 48; yet we must notice, first, that *bou-* was probably borrowed from Oscan (I § 432 Rem. 1), and secondly that the meaning 'great' in *bū-mammus* etc. points to Greek influence.

Nasal stems. *nōmen-clator* like Gr. *ὀνομά-κλυτος*? *homicida* (acc. *homin-em*): Goth. *guma-kunds* 'of the male sex' (*guma*, gen. *gumins*), *sangui-sūga* (*sanguen*), inscr. *numi-clatori*. See § 12 p. 27. With the last group we should probably compare *nāncupō* for **nōmi-cupō*, cp. *princeps* p. 58. There is a third group, the largest and the latest formed, consisting of words like *imāgin-i-fer germin-i-seca Aniēn-i-cola aquilōn-i-gena*, cp. Gr. *γορ-ο-μανής* etc. (§ 29 p. 49).

sim-plex: cp. Gr. *ἀ-πλόος*, § 12 p. 27. We must also mention here *septem-fluos decem-peda nūn-dinae*, beside which are found *septi-rēmīs sept-ennis*, *dec-ennis* (cp. *octi-pēs oct-ennis* from *octō*).

Stems in *-r-*. *fratr-i-cīda sorōr-i-cīda*, cp. Gr. *πατρ-ο-φόνος ὁμητορ-ο-διδάσκαλος* (§ 29 p. 50).

Stems in Explosives. *dent-i-frangibulus serpent-i-gena. ped-i-sequos frond-i-fer. vōc-i-feror. rēg-i-fugium*.

Stems in *-s-*. *nas-turtium mūs-cipula. jādex* for **jouz-dic-s*, *jū(s)-stitium*, and beside it *jūr-i-dicus*. Stems in *-es-* show *-i-* and *-er-i-*: *foedi-fragus volni-ficus* and *foeder-i-fragus mūner-i-gerulus*. The forms with *-i-* only are no doubt due to the similarity of the nominative terminations of the two stems, *foedus*: *haedu-s*. Nouns in *-ōs -ōris* (§ 133): *labōr-i-fer odōr-i-sequos*; the form *rūmi-ficō* by the side of *rūmor*, implies, as does also *rūmus-culu-s*, an older word **rūmus -eris* or *-oris* (cp. *decus* beside *decor*), cp. also *horri-fer -ficus* beside *horror*. The form *cini-flō*, from *cinis -eris*, is due to the nominative-ending *-is* (cp. *angui-s*), since we could hardly derive

it phonetically from a form like **cinis-flō*; cp. the new formations *cucumī cucumim* beside *cucumis -eris*, and another word which must also be explained by reference to the form of the nominative, *lapi-cīda* from *lapis -idis*.

Remark. We must no doubt assume the loss of *-i-* through syllabic dissimilation in the following: *trucidāre*, for **truci[i-c]idāre*, *arcubī* ('qui excubabant in arces') for **arc[i-c]ubī*, *cordolium* for **cord[i-d]olium*. See I § 643 p. 482. The monosyllabic stems contained in *pelluviae* for **ped-luviae* (I § 369 p. 280), *sōl-stitium* (beside *sōl-i-fer*) and other such compounds may or may not have dropped an *-i-* (I § 633 p. 474). With *pelluviae* compare *malluviae* for **man-luviae*.

In the monuments of the Umbro-Samnitic dialects this class of compounds is very scantily represented. If we disregard compounds containing numerals, and uncertain instances like the Osc. *ovfrikūnūss*, whose initial part is mutilated (Pauli, *Altit. Stud.* II 118), there remains only the Osc. *med-dīs med-dis*, whose first part is the same as the Umbr. *meī-s mers 'ius, fas'* (§ 132. 163).

du- for Idg. **dui-* 'two' is peculiar to the Italic languages: Lat. *du-plus du-plex du-centī du-bius* (I § 170 p. 150), Umbr. *du-pla 'duplas' du-pursus 'bipedibus'*. I regard it as a new formation of proethnic Italic, suggested by *quadru-*: Lat. *quadru-plus -plex -pēs*, and in early Latin **quadru-centī* for *quadrin-gentī* (Wackernagel, *Kuhn's Ztschr.* XXV 283); *quincu-plex* etc. are formed on the same model. Umbr. *petur-pursus* 'quadru-pedibus' was a new Umbrian formation.

§ 35. Class II. Lat. *in-jugis*: Skr. *a-yuga-s* Gr. ἄ-ζυγος 'unyoked'; *in-eptus*: cp. Skr. *án-āpta-s* 'unattained, unskilled'. Umbro-Samnitic has *an-* 'un-', which seems to correspond to Gr. *νη-* = Idg. **ǵ-* (I § 253 p. 207): Umbr. *antakres* 'integris' Osc. *an-censto* fem. 'incensa, not valued'.

In Italic, Idg. **ne* 'not' was also restricted to use in compounds, as Lat. *ne-fās*.

Class III. Lat. *com-mōtus* Umbr. *comohota* 'commota', Lat. *con-ceptus* Falisc. *cun-captum* 'conceptum', Lat. *con-ventiō con-ventus* Osc. *kúm-bennieís* gen. 'conventus'; O.Ir. *com-* e. g. *ro co-scad* 'correptus est'. Lat. *per-emptus per-versus* Umbr.

per-etom 'peremptum': Skr. *pari-vṛtta-s* 'turned about' Lith. *pér-versta-s* 'reversed, changed'. Lat. *ab-ditus*: Gr. ἀπό-θετος 'set aside, secret', *ab-ductiō*: Mid.H.G. *abe-zuht* 'a drawing away'. Lat. *por-tentum por-rectum* Umbr. *pur-ditom* 'proditum': no doubt to be compared with Gr. *πάρα* (Stolz, Arch. f. lat. Lexicogr. II 498 f.).

Lat. *inter-mē(n)stris inter-mēnstruos* Umbr. *anter-menzaru* 'intermenstruarum', cp. Lat. *inter mēnsēs*. Lat. *amb-urbium*, Osc. *am-vīanud* abl. of the stem *am-riano-* 'that which lies on both sides of the way', hence 'vicus, platea' (cp. Bücheler in Nissen's Pomp. Studien 499). Lat. *per-nox per-dius* (*per noctem, per diem*); *per-fidus* (*per fidem fallere*). *sub-jugu-s* (*sub jugō*). *ante-novissimus* (*ante novissimum*).

Idg. **ne* 'not', as has been said above (Class II), was restricted in Italic to use in composition, as Lat. *ne-fas*.

Lat. *ad-modum. in-vicem. af-fatim* 'to satisfaction'. *dē-nuō* for *dē novō* I § 172 p. 152. *ilicō* for **in slocō* 'on the spot'. I § 81 p. 73. *pro-fectō* for **prō factō* properly 'as good as something done' I § 682 p. 549. Many such phrases were reduced to single words largely through the enclisis of the noun and the isolation caused by phonetic change.

§ 36. Class IV. In Umbrian *desen-duf* corresponds to the Lat. *duo-decim* (§ 16 p. 32), cp. Gr. *δέκα δύν* beside *δύο-δέκα*. Lat. *ūn-decim*, explained in I § 633 p. 474 as standing for **ūnu(s)-decim*, may contain other case-forms; according to Wackernagel (Kuhn's Ztschr. XXV 284) it stands for **ūnum-decim*, cp. Gr. *ἑν-δέκα*.

Lat. *Jū-piter Juppiter* is said (no doubt correctly) to be = Gr. *Ζεῦ πάτερ*, and is therefore a vocative used as nominative (I § 612 p. 463), Umbr. *Iu-pater*. Lat. *Diēs-piter*, gen. *Diēs-pitris*; an analogous form is *Mārs-piter*, also *Māspiter* (I § 269 p. 217). The words *postrī-diē cottī-diē* (*cottī-* for **quettī-*, see I § 419 p. 307, § 431 p. 320, originally meaning 'on which-soever day of a series'; Wackernagel, Kuhn's Ztschr. XXIX 147 gives a different explanation), and *merī-diē* (properly 'in the clear

day', from *meru-s*, see Stowasser, Archiv f. lat. Lexicogr. I 273 ff.) contain two locatives. The nom. *meridiēs* is like the Mod.H.G. *die mitternacht* 'midnight', which comes from the gen. dat. *mitter nacht* 'at midnight', and *cottidianu-s meridianu-s* like *mitternächtig*.

We have a group of words which did not become compounds until the literary period of Latin: *holus atrum*, *rōs marīnus*, *fēnum Graecum*, *jūs jūrāndum*, *rēs pūblica*, *alter uter* etc.: gen. *holusātrī* beside *holeris ātrī*¹⁾, *rōsmarinī* beside *rōris marīnī*, *alterutrīus* beside *alterius utrīus* and so forth (Neue, Formenl. I² 590 f.).

Sacraviēnsēs from *sacra via*, *quartadecumānt* from *quarta decuma* (*legiō*).

In some cases the initial member follows the analogy of Class I: *Aquiflāviēnsēs* from *Aquae Flāviae*; *equiferī* 'wild horses' *ovifer* 'wild sheep' instead of *equos ferus* and *ovis fera*, influenced no doubt by the type of Greek compounds like *ἄγ-αγρος* 'wild goat' *ὄν-αγρος* 'wild boar' (cp. the Author, Rhein. Mus. XLIII 404); *multi-modīs*, *omni-modīs* instead of *multis modīs*, *omnibus modīs* (Danielsson, *Studia grammatica*, Upsal. 1879, p. 51).

In the literary period of Latin, phrases like *aquae ductus* and *aquae ductiō*, *agrī cultūra*, *plēbis scītum*, *fidei commissum*, *capite cēnsi*, *jūre cōsultus* etc. became compounds. Then, by a transition to Class I, *aqui-ductus*, cp. *aqui-dactus* 'ἰδραγωγός'. *pater-famīlias*, like Mod.H.G. *mutter-gottes*, 'mother of God' *leib-brōt* 'loaf of bread' (O.H.G. *leip prōtes*) Pol. *śtuka-mięsa* 'piece of meat'.

**quot annī*, **quot mēnsēs*, originally relative clauses (cp. Gr. *ὅσας ἡμέρας* 'daily'), in course of time ceased to be regarded as such, and then the compounds *quotannis*, *quotmēnsibus* were

1) The *i* of the form *holisātra* (Apicius) was due to the analogy of compounds of Class I like *multi-sonus*; for the formation is too late to admit of the supposition that it was caused by the natural course of phonetic change, as in the second syllable of *ūlicō* for **inslocō* (I § 81 p. 73.)

formed, like *hīs annīs* (Wackernagel, Kuhn's Ztschr. XXIX 146 f.). Cp. Lith. *kas-vākara* § 46.

breve iter, *longum iter* became *breviter*, *longiter*, and so forth. Thus arose the adverbial suffix *-iter -ter*. See Osthoff, Archiv f. lat. Lexiogr. IV 455 ff.

nu-dius tertius 'the day before yesterday', properly equivalent to 'nunc dies tertius' (*nu* = Skr. *nū* Gr. *ν* etc.). Hence *nudius-tertiānu-s* 'belonging to the day before yesterday'.

male-volēns, *male-dicēns* (from which were formed *malevolentissimus*, *maledicentior*, cp. Mod.H.G. *tieffühlendst*, *freigelegener*). *bene-volēns*. Derivatives of these are *malevolentia benevolentia*, and on their analogy were formed *malevolus benevolus*, *maleficus beneficus* for the older forms *mali-volus beni-volus*, *mali-ficus beni-ficus* (Class I, cp. *benignus* for **beni-gnu-s*, I § 619 p. 466 f.). A compound found in Tertullian, *altēgradius* = *altē gradiēns*, shows the same type as *male-volus*.

In later Latin, as we have already seen (§ 33 p. 57), this class grew more and more extensive. Especially where the inflexional differences of the cases had disappeared, and the first member of the compound consequently lost its proper meaning as a case, compounds of Class IV came more and more into favour. By far the greatest part of the nominal compounds now found in the Romance languages belong to this class. This disuse of Class I, in favour of Class IV is most clearly seen in 'epithetised' compounds, as French *rouge-gorge* 'red-gullet' *pattepelue* 'hairy-paw' i. e. 'fawner, sneak'. See A. Darmesteter, *Traité de la formation des mots composés dans la langue française* etc., Paris 1875.

Old Irish.

§ 37. Class I. The final vowels of the stem of the initial members were accurately preserved only in Gallic. In Irish they suffered syncope and disappeared (I § 634).

Stems in *-o-*. O.Ir. *ech-rad* fem. (collective) 'horses': Mod. Cymr. *eb-rwydd* 'quick' Gall. *Epo-rēdia*, pr. Kelt. **ekyo-rēdā-* (as to the second part, see Zimmer, Kelt. Stud. II 24), beside O.Ir. *ech*

'horse', Skr. *ásva-* Gr. *ἵππο-* etc. O.Ir. *dag-duine* 'bonus homo', from *dag* 'bonus'¹⁾: Gall. *Dago-vassus*. O.Ir. *Doman-gart*: O.Cymr. *Dofn-garth*, Gall. *Dubno-rîx Dumno-rîx*, from *domun* 'world'; *doman-* for **domno-* through the intermediate stage **domu-*, see I § 623 Rem. 1 p. 469. Gall. *vergo-bretus* name of a magistrate amongst the Aedui, = 'cuius iudicium efficax est', beside O.Cymr. *guerg* 'efficax'; *Nerto-mārus* from *nerto-* 'strength, might'. In Irish the change of *t*, *c* to *p*, *χ* (*th*, *ch*) at the beginning of the second member indicates that the first originally ended in a vowel (I § 514 p. 375 f., § 658 p. 510), as *fîr-threbaire* 'true wisdom' from *trebaire*, *nocht-chenn* 'bare-headed' from *cenn*. The same is true of the *f* in such compounds as *find-folt* 'white hair' from *folt*, and the *s* in compounds like *macc-slabrad* 'plaything' from *slabrad* 'chain' (I § 576 p. 431, § 658 p. 510). Where the second member began in a sonant, *-o-* disappeared in protoethnic Keltic: e. g. O.Ir. *find-airgit* 'white silver' (cp. Gall. *Vindo-magus*) *fîr-aingliu* 'veros angelos'; so in Gallic we find *Art-albinnum* beside *Arto-briga* as compared with O.Ir. *art* 'stone'; here too should be classed compounds like Mid.Ir. (*h*)*uasal-athair* 'patriarch' ('august father'), if the elision of *-o-* in this position was later than the loss of initial *p-* (I § 339 p. 268).

Remark. In Gall. *-u-* is sometimes found instead of *-o-*, e. g. *Virdumārus* and *Virdo-mārus*, *Adiatu-māru-s* and *Adiato-rîx*, and sometimes *-a-*, as *Reita-genus* (Esser, Beitr. zur gallo-kelt. Namenkunde I 5. 6 f.). These differences are due in part to an inexact representation of unaccented vowels in writing, but in part also to dialectic variation.

O.Ir. *aili-thir* 'stranger, pilgrim' from *alio-* and *tîr* 'terra'. *nûe-litridi* acc. 'novos, recentes litteratores': cp. Gall. *Novio-dānum* 'Newtown'.

Stems in *-ā-*. It may be assumed that *-o-* was regularly found even in protoethnic Keltic (§ 12 p. 24 f.). Gall. *Teuto-bōdiacī* *Touto-bociō* beside O.Ir. *tuath* f. = Goth. *þiuda* f. 'people', common ground-form **teytā*, so that no doubt O.Ir. *Tuath-char* and

1) With this combination of adjective and substantive, and with those to be mentioned below compare § 39.

O.Cymr. *Tut-ri* originally had *-o-*. O.Ir. *dal-tech* 'forum' (house of assembly) *dal-suide* 'forum' ('seat of assembly') from *dāl* f. O.Ir. *briathar-chath* 'battle of words' for **brētro-* through the intermediate stage **brēl̥-*, beside *briathar* f. 'word' for **brētra-* (I § 623 Rem. 1 p. 469, § 634 p. 475).

Stems in *-i-*. O.Ir. *muir-bran* 'mergus' ('sea-raven') from O.Ir. *muir* n. 'sea' for **mori*: Gall. *Mori-tasgus Mori-dānum*. In these and other words the palatalisation of the last consonant of the first member is an obvious trace of the *-i-* which once stood before it (cp. *buaid-lia* 'fornix', properly 'triumphalis lapis' from *buaid* n. 'victory', *sain-chenelæ* 'proprium genus').

Stems in *-u-*. O.Ir. *cath-buadach* 'victorious in battle' *cath-lach* 'battle-host, assembled fighting men' *cath-charpat* 'battle-chariot' from *cath* 'battle': Gall. *Catu-slōgus* (= *cath-lach*) *Caturīgēs*, O.H.G. *hadu-*. *bith-beo* 'semper vivus', from O.Ir. *bith* 'world', which when used as the first member of a compound took the meaning 'everlasting, ever' (cp. § 4 p. 6): Gall. *Biturīgēs*. *fid-boce* 'ligneus arcus', from *fid* 'wood, tree', O.H.G. *witu* 'wood'.

To determine the chronology of the loss of the final vowel in the first member, we have the evidence of such forms as the nom. pl. *gnīmartha* beside sing. *gnīm-rad* 'act, deed', compared with the *u*-stem *gnīm*, cp. *ech-rad* above. Since *-ar-* came immediately from *-r-*, and this came from *-rē-* (I § 634 p. 475), the stem-final of the first member must have already disappeared before the process of *samprasāraṇa* began. Indeed, even in Gallic we find *Lūgdunum* for *Lugu-dūnum* (Dio Cass. XLVI c. 50 τὸ Λουγούδουνον, νῦν δὲ Λούγδουνον καλούμενον).

Stems in *-n-*. For these the form in *-o-* is substituted, as in Gr. *κῑό-κρᾶνον* (§ 12 p. 27); e. g. Mid.Ir. *talam-chumscugud* 'earthquake' from *talam*, gen. *talman*, f. 'earth'.

Stems in *-r-*. The examples of these stems are not free from difficulty. O.Ir. *athar-gein* 'procreation (of the father)' *māthar-marbthach* 'matricide' *māthar-lach* 'matrix', the *-thar* being no doubt for **-tr-o-* (cp. Gr. *μητρ-ο-κτόνος*). *athr-amil* 'patri similis' *mādr-amil* 'matri similis' beside forms like *sain-*

samail sain-email. Where the final member begins in a sonant: *athir-oircnid* 'patricide'. *sethar-oircnid* 'murderer of a sister' is no doubt modelled on forms like *máthar-marbthach*, where the gen. sing. determined the type.

Stems in Explosives. All of these must have had -o-. O.Ir. *carat-rad* 'friendship' from *cara*, gen. *carat*; compare Gall. *Carent-o-magus*. Mid.Ir. *oiged-chaire* 'friendship between guest and host' from *oegi*, pl. *oegid* 'guest'. O.Ir. *rig-thech* 'king's house' *rīg-faith* 'royal poet' from *rī*, gen. *rīg*, 'king', cp. Lat. *rēg-i-fugium*. Cp. also Gall. *Cinget-o-rīx* beside *Cinges* gen. -etis O.Ir. *cing*, acc. *cingid*, 'vir fortis, heros'; Gall. *Brig-o-banne* and **Brig-o-gilum* (whence the modern *Brigueil* and *Brieulles-sur-Bar*), beside O.Ir. *bri*, gen. *breg*, 'rising ground'.

Stems in -es- show in Irish the same type as Gr. *εἰς-κόμος*. O.Ir. *teg-lach* 'household, familia' (O.Cymr. *teulu* 'familia'), beside *tech* n. 'house' = Gr. *στέγος*, *tecnate* 'domesticus, familiaris' for **tech-gnate* (the spirant having been assimilated to the initial consonant of the second member) a derivative from **tech-gnath* (*gnath* 'consuetus'). O.Ir. *leth-cholba* 'the pillar by the side, the second pillar', *led-marb* 'half dead', from *leth* n. 'side, half'. It is probable that Gallic names like *Cartis-mandua Civis-mārus* (see Zeuss² 785. 853) represent the same type of compound as Gr. *ἐπισ-βόλος*; yet it is at least possible that a vowel has fallen out after the -s-, cp. e. g. gen. *Viscari* for **Visu-cari*.

§ 38. Class II. Idg. **u-* 'un-' appears in Irish in different forms according to its phonetic surroundings. *ē-* before *t*, *c*: O.Ir. *ē-tromm* 'not heavy, light' *ē-cain* 'indecent'; but in Cymr. *an-*, as *annheilung* 'unworthy': O.Ir. *ētualng-ithe* 'indignatus', cp. Mod.Cymr. *cant*: O.Ir. *cēt* 'hundred', I § 243 p. 201. *in-* for **en-* before *d*, *g* (cp. I § 520 p. 378): O.Ir. *in-derb* 'incertus' *in-gnad* 'insolitus'. *an-* before vowels, Idg. **un-* I § 243, 4 p. 202: O.Ir. *an-eolas* 'inscientia', beside *eola* 'gnarus', *an-se* 'heavy' beside *asse* 'light'. By analogical transference *an-* came to be used before explosives, even in O.Ir.: *an-cretem* 'infidelitas', *an-dach* 'nequitia', *an-glan* 'immundus'. Further examples of this

kind are *an-fiss* 'insecitia', *an-bsud* 'instabilis' (*foss* 'quietude'), Mid.Ir. *ain-mine* 'roughness' and the like.

do- du- in *do-chruth* 'deformed' etc.: Skr. *duṣ-*, cp. § 14 p. 29. The opposite of this, *so- su-* = Idg. **su-*, is kept in Keltic (as in Armenian, § 28 p. 46) only in composition: O.Ir. *so-nirt* 'good in strength, strong' from *nert* 'strength', *su-thain* 'everlasting' from *tan* 'time'.

Class III. O.Ir. *cuim-rechta* 'alligatus' beside *con-ring* 'alligo': cp. Lat. *com-ēsus*. *es-arte* 'caesus, expalpmatus' beside *es-arcon* 'excisio': cp. Gr. *ἐξ-αίρετος* 'selected'. *etar-scarthi* 'divisa': cp. Lat. *inter-fectus*. *acsiu* 'net of seeing' dat. *acsin* beside the pres. *ad-chiu*: cp. Lat. *ad-emptiō*.

O.Ir. *ess-amin* Mod.Cymr. *eh-ofyn* 'fearless' Gall. *Ex-obnus* *Ex-omnus*, from pr. kelt. *ex* 'out' = Lat. *ex* and (O.Ir.) *omun* 'fear'. Gall. *Ambi-rēnus* ('around the Rhine'), *Ad-lēdus* ('by the river Lēdus'), *Are-morica* ('before the sea').

O.Ir. *ro-*, an intensive particle, as *ro-mōr* 'very great' *ro-chain* 'very beautiful', stands for pre-Keltic **pro-* (I § 339 p. 268): cp. Gr. *πρό-καλος* 'very beautiful' *πρό-κακος* 'very bad'. O.Ir. *ēr-er-*, also an intensive particle, as *ēr-chosmil* 'very similar' *ēr-chian* 'very long', comes from **ex-ro-*; for the loss of the *-o* see I § 634 p. 475.

§ 39. Class IV. Besides compounds in which an adjectival stem was followed by a substantive (Class I), in Irish, as in the other Indo-Germanic languages, inflected adjectives were combined with substantives. Such phrases often developed into compounds, and this process was all the more natural because the adjective lost the characteristic inflexion of many of its cases, and thus the phrase looked like a compound of Class I. Hence the two groups overlapped, and in particular instances it is difficult to decide how the compound arose. In none of these words have we any clear traces of the destructive influence which the accent elsewhere exerts upon the final members of compound words, e. g. *drog-scēla* 'mali nuntii' *dag-gnīm* 'good work' (I § 685 p. 552), and therefore we might in all cases decide in favour of Class IV. But there

is nothing to prevent our assuming that compounds belonging to Class IV influenced the accent of those of Class I. See Zimmer, Kuhn's Ztschr. XXIV 224 f., Kelt. Stud. II 19 ff. We shall find a similar confusion of two different types of composition in High German, § 44.

Germanic.

§ 40. Class I.

Stems in *-o-*. Where the second member began in a consonant the vowel seems always to have survived in protothnic Germanic. In Gothic we find stems sometimes with *-a-* and sometimes without, but no rule has yet been discovered to account for this difference, although it must be connected with some variation of accent¹⁾: *guda-faurhts* 'God fearing' *gud-hūs* 'God's house' from *guf* 'God', *aina-baur* 'innate, native' *ain-falps* 'simple' from *ains* 'one', *laus-a-wairds* 'speaking folly' *laus-gipra* 'with empty stomach' from *laus* 'loose, empty, null', *akrana-laus* 'fruitless' from *akran* n. 'fruit', *piudan-gardi* f. 'king's house' from *piudans* 'king'. In West Germanic, where the vowel still appears as *o* in the oldest monuments (I § 83 Rem. I p. 77), the law of syncope described in I § 635 p. 476 was in operation; but its results were largely obscured by new formations. The following are examples of the regular developement. O.H.G. *tugo-sterno tuga-stern* 'daystar, morning star', *spilo-man spila-man* 'player', *wego-wiso wega-wiso* 'guide'. On the other hand we find *boum-garto* 'orchard', *wîn-rebe* 'vine', *himil-zungal* 'stars of heaven', *houbit-band* 'head-band'. Parallel to these stand such forms as *eban-lih* 'aequalis' *regan-mânôd* 'rainy month' *atum-zuht* 'respiration' *accar-bigeno* 'agricola' *vogal-chrût* 'chick-weed', which come from prehistoric ground-forms containing **ebno-* **rezno-* **edmo-* **akkro-* **fuzlo-* (cp. Goth. *ibna-leiks*, *figgra-gulþ* 'finger-ring' and *Austro-valdus*, Count of Toulouse, 588 A. D.). However, it has still to be determined (cp. Kaufmann, Paul-

1) See Holtzmann, *Altdeutsche Gr.* I 2, 55; Kluge, Kuhn's Ztschr. XXVI 81; Kremer, *Paul-Braune's Beitr.* VIII 381. 438. Kremer's theory is the least satisfactory.

Braune's Beitr. XII 537 ff.) how far the historical form of the first member may have been due merely to the influence of the uncompounded word (*eban regan* etc.).

Remark 1. In O.H.G. through the partial coincidence of the *i*- and the *a*-declension, *-i-* often intruded in place of *-o-* *-a-*, as *wegi-rih* beside *wego-rih* *wega-rih* 'waybread, plantain' (properly 'way-ruler'). Cp. Rem. 3 *infr.*

The treatment of *-o-* in protoethnic Germanic, where the second member began in a sonant, is uncertain (cp. I § 606 p. 459). It is possible that in some forms the hiatus remained (see above, § 12 p. 25), cp. Goth. *galiuga-apaústaúlus* 'false apostle' (from *galiug* n. 'lie'), O.H.G. *sigo-ēra* *sige-ēra* beside *sig-ēra* 'honour shown for victory'. Elision is by far the most frequent: Goth. *hals-agga* 'curve of the neck, nape' from *halsa-* 'neck', *all-andjō* 'complete' from *alla-* 'all'; O.H.G. *wer-alt* O.Sax. *wer-old* A.S. *wor-old* O.Icel. *ver-öld* 'age of men, period, world' beside Goth. *vair* (stem *vaira-*) 'man', O.H.G. *ein-ougi* A.S. *ān-eāge* O.Icel. *ein-eygr* 'one-eyed' beside Goth. *ains*. O.H.G. *eban-alt* 'equally old' Mid.H.G. *ōster-abent* 'Easter-eve, day before Easter' for **ebn- *ōstr-*, show the same analogical change as is seen in O.H.G. *ebano* *ebunōn* (see I § 215 p. 182 f.); the regular type is preserved in *Vestr-ālpus*, an Alemannic chief (Ammian).

Forms containing the suffix *-io-*. Goth. *alja-kuns* 'of other origin, strange', *frapja-marzeins* 'derangement of mind' (*frapi* n.), and on the other hand, with a long syllable before the suffix, *arbi-numja* 'receiver of an inheritance, heir' (*arbi* n.), *aglaūti-vaurdei* 'improper speech' (*aglaūti* n. 'impropriety'). Cp. the contrast of gen. sing. *harjis* and *hadrdeis*, I § 120 p. 112 f., § 143 p. 128 f., II § 63. In West Gothic *-i-*, not *-ja-*, is found from the sixth or seventh century onwards even in the former class of words. In Old High German *-i-* is universal, as *eli-lenti* 'foreign' *eli-boro* 'alienigena' *heri-berga* 'camp, shelter' *arpi-lōs* 'without inheritance'. It is questionable whether we should assume that *-i-* had appeared after short syllables, as in *eli-* (cp. O.Sax. *eli-lendi* O.Fris. *ili-lende*), before the consonant-strengthening (I § 143 p. 129) and the syncope (I § 635 p. 476) of West Germanic (Sievers, Paul-Braune's Beitr. XII 488 ff.); see

Kaufmann *ibid.* 537 ff. *-io-* *-iō-* are frequently found in proper names belonging to different Germanic stocks in the first centuries A. D., as *Χαρίο-μυρρος* *Hario-baudes*, *Inguio-mērus*.

Stems in *-a-*. It may be assumed that even in protoethnic Germanic *-o-* was regular (§ 12 p. 25). Goth. *airþa-kunds* 'of earthly origin' from *airþa* 'earth', *hveila-hvairbs* 'accommodating oneself to the time', *πρόοιχαρος* from *hveila* 'time, while'. O.H.G. *beto-man* 'one who prays' *beta-hūs* 'house of prayer' from *beta* 'prayer'; on the other hand *erd-rīhhi* 'kingdom of earth' from *erda*, *brāch-manōt* 'month of the first ploughing, June' from *brācha* 'land broken up'. O.H.G. *ahsal-pein* 'shoulder-bone' from *ahsla* 'shoulder', like *vogal-chrūt*. O.H.G. *erd-aphil* ('earth-apple') 'cucumber, melon' from *erda-*, *scab-īsen* 'shaving tool' from *scaba* 'shaving tool, plane', like *wer-alt*. Mid.H.G. *nādel-aere* 'needle's eye' from O.H.G. *nādla* Goth. *nēpla* 'needle', like *ōster-ābent*. Compare p. 70.

Words containing the suffix *-iē-*, *-iā-*: Goth. *þūsundi-faþs* 'leader of a thousand' from *þūsundi* f. (nom. pl. *þūsundjōs*) 'thousand'; O.H.G. *sunti-lōs* 'sinless' from *suntia suntea sunta* 'sin', *redi-haft* 'eloquent' from *redia reda* 'speech', like *eli-lenti*; see above.

Remark 2. In these feminines *-o-* and *-a-* often occur as well as *-i-*, e. g. *redo-haft reda-haft*, *hella-fiur* 'hell-fire' (from *hellu* Goth. *halja* 'hell'). Here analogy has been at work; this new formation spread in the *-iē-* (*-iā-*) stems, not in those with *-io-*, because the sonant *-i-* which stood at the point of juncture was not supported in the former class of stems as it was in the latter (cp. *heri-berga* beside nom. acc. *heri*) by the case-forms of the uncompounded word; the *-i-* of the compound was especially liable to alteration after the *ī* of the original word had been completely assimilated to the preceding group of consonants.

Stems in *-i-*. In protoethnic Germanic *-i-* was no doubt kept in all compounds whose second member began in a consonant. Goth. *-i-*, as *gasti-gōþs* 'hospitable' from *gasts*, *drauhti-vitōþ* 'service in war, fight' cp. *ga-drauhts* (stem *ga-drauhti-*) 'warrior'; rarely the *-i-* is lost (cp. the loss of *-a-* above): *brūþ-faþs* 'bridegroom' from *brūþs* 'bride', *þut-haúrn* 'horn for blowing' from **þuti-* 'noise, sound' = O.Icel. *þytr* Mid.H.G. *duz*. In O.H.G.

the forms are syncopated according to rule. *steti-got* 'genius loci' *turi-sūl* 'doorpost, post', but *tāt-rahha* 'narrative of what has happened' *gast-hūs* 'strangers' shelter' *truh-sāzo* *trut-sāzo* (Mid.H.G. *truht-saeze*) 'lord high steward'.

Remark 3. In O.H.G. through the partial coincidence of the *i-* and the *o-* declension *-o-* *-u-* often took place of *-i-*, as *scritu-māl* beside *scriti-māl* 'pace, step' from *scrit*, pl. *scriti*. Cp. Rem. 1 above.

Stems in *-u-*. In protoethnic Germanic *-u-* always appeared in compounds whose second member began in a consonant. Gothic has always *-u-*, as *faihu-gairns* 'covetous' from *faihu* 'cattle, possessions', *filu-faihs* 'very various' from *filu* 'much, very'. In O.H.G. the forms were altered by the law of syncope: *fihu-wiari* 'cattle-pond', *filu-sprahhi* *filo-sprahhi* 'speaking much', *witu-hoffa* *woito-hoffa* ('wood-hopper') 'hoopoe' from *witu wito* 'wood', *Hadumār* proper name (*hadu-* 'battle': Gall. *catu-*), but on the other hand *tōd-līh* 'mortalis, mortiferus' from *tōd* = Goth. *dáuþu-s* 'death', *hungertag* 'day of fasting' for **hunægru-* (cp. *accar-bigengo* p. 69) cp. Goth. *hūhru-s* 'hunger'.

Stems in *-n-* in protoethnic and later Germanic show the same type as Gr. *xiō-xoārov* (§ 12 p. 27). Goth. *guma-kunds* 'of the male sex' O.H.G. *gomo-heit* *goma-heit* 'persona' beside Goth. *guma* O.H.G. *gomo* m. 'human being, man', cp. Lat. *homi-cida* p. 60. O.H.G. *hano-crāt* *hana-crāt* 'crowing of a cock' from *hano* Goth. *hana* m. 'cock'. O.H.G. *namo-haft* *nama-haft* 'having a name' from *namo* m. Goth. *namō* n. 'name'. Goth. *auga-daúrō* n. ('eye-door') 'window' O.H.G. *oug-brāwa* 'eyebrow' from Goth. *augō* O.H.G. *auga* n. 'eye'. O.H.G. *herz-blīdi* 'heartily agreeable' from *herza* Goth. *hairtō* n. 'heart'. When the second member begins in a sonant: O.H.G. *brunn-ālara* 'vein of a spring' from *brunno* Goth. *brunna* m. 'spring, brook'.

Remark 4. It is noteworthy that the type of compound containing a genitive (Class IV), such as *hanin-fuoz*, *Franchōno-lant* (§ 44), common enough even in O.H.G., in later times continually encroached upon the stem-compounds of Class I, particularly in the Modern period. The chief factor in this development was the circumstance that *-en* came ultimately to be the ending of other cases besides the genitive, and hence lost its originally definite character. Cp. J. Grimm, D. G. II (1878) p. 528. 591 ff.

Stems in *-r-*. In Gothic we have the form *brōþru-lubō* 'brotherly love'; it is uncertain whether the first part represents Idg. **bhratǵ-* (I § 299 p. 237 f.), or whether, like the nom. pl. *brōþrjus*, it was a new form modelled upon the *u*-stems. *brōþr-a-lubō* also occurs, cp. Gr. *πατρ-ο-φάρος* etc. O.H.G. *pruodar-līh* 'brotherly' may be variously explained; *fatar-erpi* 'patrimonium' is in any case a new form instead of **fatr-*. We also find *pruader-līh* *fater-līh* and the like, where *e* is due to the influence of the inflected forms of the uncompounded word.

O.H.G. *fiant-līh* 'hostile' *friunt-līh* 'friendly', *fuoz-scamil* 'footstool', like Gr. *δρακοντ-ό-μαλλος*, *ποδ-ο-στράβη*. At the same time it must be observed that in O.H.G. many of these consonantal stems have gone over bodily to one of the vowel-declensions, e. g. *mānōd* 'month' (Goth. still has dat. sing. *mēnōþ* nom. pl. *mēnōþs*), with which compare e. g. *mānōd-sioh* 'lunaticus'.

Stems in *-s-*. Goth. *sigis-láun* 'prize of victory' (cp. Goth. *Sigis-mēres* Burg. *Sigis-mundus* O.Frank. *Sigis-bertus* etc.) from *sigis* n. 'victory' (stem *sigis-a-* or *sigiz-a-*): Skr. *sáhas* n. O.H.G. *egis-līh* 'horrible' beside Goth. *agis* n. 'fear' (stem *agis-a-*), cp. also O.H.G. *egis-o* m. 'fright' *egis-ōn* 'frighten' like Gr. *αυκα-γάρος*. The following may also belong to this group, if they have lost the vowel of the suffix *-es-*: Goth. *þrūts-fill* A.S. *ðrust-fel* (for **ðruts-*) 'scab' and A.S. *Hēns-brōc*, name of a place, compare probably O.Icel. *hóms* (only in pl.) 'fowls'. Rather more frequently we have *-es-* stems extended by *-o-*: Goth. *úiz-a-smīþa* O.H.G. *ēr-smid* 'copper-smith', O.H.G. *Lembir-bah* (cp. *Kelbiris-bach* with the gen. sing., Class IV) Mid.H.G. *eier-rel* (A.S. *æzer-felma*) 'skin of an egg', Mid.H.G. *rinder-hirte* 'cowherd' (A.S. *hryðer-heord* 'herd of cattle'). After *-er-* became a sign of the plural (§ 132) the first member of these compounds took a plural meaning (*rinder-hirte* = 'herdsman of cattle').

Remark 5. The transference of these stems to the *o*-declension (§ 132), caused by the loss of the final *-os* in the nom. and acc. sing., gave rise to alterations of the stem in compounds, on the model of the *o*-class; thus O.H.G. *rind-stal*. The oldest example of this type is perhaps

the form *regua-* 'darkness' (cp. Goth. *riqis* Skr. *rājas-*), seen in *regualivahano*, which occurs on an inscription of the second or third century A. D. (found in the District of Cologne), if Holthausen is right in explaining it as 'living in the darkness'; but perhaps it is better to refer it to the analogy of nom. **requoz* : **iculfa-z*.

§ 41. In many compounds, in Germanic as in Greek and in Slavonic (§ 30. 47), the popular conception of the first member underwent a change, and the latter was regarded as having a verbal instead of a nominal force.

Thus in O.H.G. first of all nominal stems in *-i-* (for an original *-i-*, *-iō-*, *-iā-* or *-iē-*) came into immediate connexion with verbs in *-ien*, e. g. *spuri-* in *spuri-hunt* 'hunting-hound' (Mid.H.G. *spür spur* f. n. 'trace, track') came into connexion with *spuriēn* *spurren* 'to trace'; *smelzi-gold* ('melted gold') 'refined gold, standard gold' (*smelzi* n. 'gloss produced by melting, enamel') with *smelzen* (Goth. **smaltjan*) 'liquefy'; *decche* (older **decchi-*) seen in *decche-lachen* 'cloth or sheet for covering' (*deccha*, older **decchia*, 'covering') with *decchen* (O.Icel. *þekja*) 'to cover'; *slengi-stein* 'sling-stone' (*slenga*, older **slengia*, 'sling') with *slengen* (O.Icel. *slengva*) 'to sling, hurl'. Hence numerous new formations whose initial members were real verbal forms, as *deni-lachen* 'cloth for spreading out, tent-cloth' from *denen* 'to spread out', *wezzi-stein* 'whetstone' from *wezzen* 'to whet'. The next step was to give a new verbal signification to nominal stems ending in original *-o-*; thus O.H.G. *strit-muot* 'eagerness for the fray' *strit-louft* 'race' (*strit* m. 'strife') was referred to *stritan* 'strive', *scelt-wort* 'abusive word' (*scelta* f. 'abuse') to *sceltan* 'to abuse', giving a type which was followed by large number of new formations like *melc-faz* 'milk-vessel' from *melchan* 'to milk'. Then, when the *ō* and *ē* in inflexional syllables had sunk to *e*, which also represented *a* and *e*, when e. g. *beta-hūs* 'house of prayer' and *betōn* 'to pray' had become *bete-hūs beten*, and *lina-berga* 'railing, trellis' and *linēn* had become *line-berga linen* respectively, the numerous forms of this kind gave a fresh impulse in High German to the verbal interpretation of the initial members of compounds, and the new type of formation already established was taken into yet wider use; e. g. Mid.H.G. *lebe-site* 'manner of life' from *leben* 'to live'.

Remark 1. In Mid.H.G. the stems of all classes of verbs had begun to be used in the initial part of compounds, and the number of such verbal compounds has been considerably on the increase down to modern times. There were always a number of words which to the popular consciousness appeared halfway between nominal and verbal compounds; as do even now such words as *streit-lust*, *tanz-lust*, *schlummer-stätte*, *raub-cogel*, cp. *streit* and *streiten*, *tanz* and *tanzen* etc. [Similar uncertainty is felt in English with regard to compounds like *shoe-room* *paint-brush* *watch-tower* *slaughter-house*.] But such forms inevitably came to be regarded as verbal when the noun was no longer used uncompounded, e. g. in *bethaus*, which was formed from O.H.G. *bete* Mod.H.G. *bete* 'prayer', but, when this noun was lost, was of necessity connected with the verb *beten*.

Remark 2. The same process of analogical formation arising from a new interpretation of nominal stems is found in the other West Germanic dialects and in those of Scandinavia; whether it also took place in Gothic is doubtful. See Osthoff, *Verbum in der Nominale*. p. 10 ff.

Remark 3. Connected with this is another characteristic of High German which may be mentioned here; — the new meaning given to the initial member of adjectival compounds in *-bar*, *-lich*, *-haft*, *-sam*. E. g. O.H.G. *danc-bāri* Mid.H.G. *danc-bære* at first meant exactly 'gratias (re-) ferens' (O.H.G. *danc* Goth. *þagks* 'thanks'), O.H.G. *scin-bāri* Mid.H.G. *schin-bære* literally meant 'bearing an appearance, having an appearance'. Now when the second member had acquired the character of a suffix, the first was referred to the verb to which it was akin (Mid.H.G. *danken* and *schinen*). Hence further new formations like Mid.H.G. *hel-bære* 'seeking to hide oneself' Mod.H.G. *trink-bar* *anwend-bar* etc., in which the second member is used like a primary suffix. See Osthoff loc. cit. p. 112 ff.

§ 42. Class II. Germ. *un-* 'un-' before consonants and before sonants: Gr. *ἀ-* *ἀν-* etc. Goth. *un-kunþs* O.H.G. *un-kund* 'unknown': cp. Gr. *ἄγνωτος*. Goth. *un-veis* O.H.G. *un-wīs* 'inexperienced': Lat. *in-vīsus*; Goth. *un-vīss* 'uncertain': Gr. *ἄιστος* 'unseen, unknown' (cp. *ἄστος* § 31), cp. I § 527 p. 382. Goth. *un-agands* 'not fearing'; O.H.G. *un-ende* n. 'endlessness': Skr. *an-antā-s* 'endless'. Germ. *tuz-* 'ill-, mis-' = Gr. *δυσ-*: Goth. *tuz-vērjan*, a denominative formation, 'to doubt' (be chary of faith), O.H.G. *zur-wāri* 'suspicious, suspectus'.

In the course of the separate developement of Germanic several particles were restricted to use in composition, e. g. *fra-* = Gr. *πρό* in Gothic and in West Germanic.

§ 43. Class III. Goth. *fra-kunþs* A.S. *fra-coð* 'despised': cp. Skr. *prá-jñāta-s* 'different, recognisable'. O.H.G. *frā-tāt*

'transgression': cp. Gr. *πρό-θις* 'a setting forth', Lith. *pra-dėti* 'to begin' *prā-džia* 'beginning'. As regards the accent see § 19, 3 p. 37. Goth. *af-stass* f. 'separation, defection': cp. Gr. *ἀπό-στασις* 'separation, defection'. O.H.G. *in-ziht* f. 'accusation': Lat. *in-dictiō*, Gr. *ἐν-δεξις* 'an information'.

Goth. *anda-nahti* n. 'the time towards night': cp. Lith. *añt-kaklė* 'that which one has on one's neck (*añt kāklo*), burden', Gr. *ἄντα, ἀντί. ὑφ-ἀίπεις* 'under an oath, bound by an oath': cp. Gr. *ἐν-απιδίος. φαύρα-δαύρι* 'that which is before the door, street': cp. Gr. *παρα-θαλάσσιος*.

Goth. *miþ-gusinþa* m. 'travelling companion', Mid.H.G. *mit-erbelinc* 'co-heir': Gr. *μέτα*. Goth. *ufar-fullei* O.H.G. *ubar-fulli* f. 'superabundance': Skr. *upári*.

O.H.G. *niwiht* Mid.H.G. *niht* 'nothing' contrasted with Goth. *ni waihts* 'nothing' *ni waihtái* 'in nothing, not at all': Goth. *waihts* 'thing, something'; we have also O.H.G. *neowiht* 'nothing' for *ni êo wiht* 'no thing at all'. O.H.G. *neoman* Mid.H.G. *nieman* 'no one' for *ni êo man*, cp. Goth. *ni manna* and *manna ni* 'no one'.

§ 44. Class IV. O.H.G. *dri-zug* A.S. *ðrī-tig* 'thirty' = Goth. *þreis tigjus*, acc. *þrins tiguns*; O.H.G. *zwein-zug* A.S. *twān-tig twēn-tig* 'twenty' was derived from old phrases containing a dative, cp. Goth. *twáim tigum* 'duabus decadibus'. Other instances of this kind do not occur until later periods. Thus Mod.H.G. *jung-geselle* 'bachelor' *neu-jahr* 'New Year' *ober-rock* 'overcoat' are from the Mid.H.G. phrases *junc geselle* 'young comrade' *niunze jar, ober roc*, and these forms are therefore stem-compounds (Class I) only in appearance. Mod.H.G. *jeder-mann* 'every one', gen. *jedermanns*, from *jeder mann* 'every man'. From the common phrases in which a preposition (*ze, in* etc.) was combined with a place-name consisting of adjective and substantive, arose new nominative forms, as Mid.H.G. *Höhen-burg, Höhen-vels*; cp. the nom. sing. *Schwaben* from *zen Swaben* (dat. pl.).

Many compounds in Germanic contain the genitive. In High German these continually grew more numerous; their

developement out of mere phrases may often be traced in the literary monuments of the language, e. g. Mod.H.G. *hungers-nōt* from Mid.H.G. *hungers nōt*, *Baierland* from O.H.G. *Beierolant*.

O.H.G. (Alemann.) *Zios-tuc* A.S. *Tīwes-dæz* O.Icel. *Týs-dagr* 'Tiu's (Zio's) day, Tuesday', cp. gen. Gr. *Δι(τ)-ός* Skr. *die-ás*. Similarly O.H.G. *donares-tag* A.S. *dunres-dæg* O.Icel. *Þörs-dagr* 'Thursday'.

Goth. *baúrgs-vaddjus* 'wall of a fortress or city' from *baúrg* 'fortress, city'. Instead of *dulgis skula* 'he who has a debt (*dulg-s* m.) to pay, debtor' (Luke 7. 41) it is perhaps better to write *dulgisskula*. Crim.-Goth. *hæmis-clep* would no doubt in Wulfila's Gothic appear as **háimis-hláiþs* 'house-bread'.

O.H.G. *gotes-hūs* 'God's house', *hundes-fluga* (beside *hunt-fluga*) 'dog-fly', *Suabo-lant* 'Swabia', *hanin-fuoz* 'crow-foot' (name of a plant, lit. 'hen's-foot'), *ohsin-zunga* 'ox-tongue' (name of a plant), *gerstūn-korn* 'barley corn', *Franchōno-tal* 'Frankenthal' (valley of the Franks); with these latter forms containing the gen. sing. or pl. of *n*-stems cp. § 40 Rem. 4 p. 72. In this class (not in Class I, § 40) should no doubt be placed the further examples O.H.G. *truhti-gomo* 'follower' *brūti-gomo* 'bridegroom'. In the Mid.H.G. period first occur compounds with the gen. pl. *aller*, as *aller-best*, *aller-grōzest*; in O.H.G. we have the phrase *allero bezzist*. From the beginning of the Modern period substantives are compounded with adjectives in forms like *manns-toll* (Mid.H.G. *mannes tol*) 'ἀνδραγαθής' *geistes-arm* (cp. Mid.H.G. *lusters arm*) 'poor in spirit'.

In Mod.H.G. it was often forgotten that *-s* was a sign of the genitive in such compounds as *hunds-fliege*. Hence many new formations; on the one hand, forms like *helfstruppen* 'auxiliary troops' *nahrungsmittel* 'means of subsistence, provisions' from *hilfe* and *nahrung*, gen. sing. *hilfe*, *nahrung* (Grimm, D. Gr. II 922); on the other hand forms like *bauersmann reitersmann* instead of *bauermann* 'countryman' *reitermann* 'cavalry-man'. Similarly in English occurs *doomsday*: A.S. *dōm-dæg*, *herdsman*: Mid.Eng. *herde-man*. Cp. § 17.

Remark. Compounds containing a dative or accusative governed by the second member do not seem to occur in Gothic nor in the older periods of High German. In any case we must reject the view (Mahlow, *Die langen Vocale* p. 100) that Gothic *seinai-gairnāi* 'φθάνοι' (gloss on 2 Tim. 3, 2) contains a dat.-loc. and means 'desiring for his own, i. e. for himself'. It is a matter of choice whether to regard this, like the reading *lāusaivaúrdāi* beside *lāusavaúrdāi* 'μαρτυροῖ' (Tit. 1, 10), as a mere mistake in writing, or to assume that the scribe wished to represent the sound of *ž* instead of *ā*, following the pronunciation of his day; cp. *Sanjai-friþas* (Lat. *Sanicfridus*) in the Naples Document (Wulfila ed. Bernhardt p. 649), where *ai* is certainly to be read as *ž*.

The close connexion between the nom. sing. *ein* and the oblique cases of *ander*, which was established in O.H.G., produced the Mid. and Mod.H.G. *ein-ander*. In O.H.G. we still find such a phrase as *sie sind ein anderen ungelih* 'they are unlike each other' (lit. 'one to others'). Cp. Skr. *anyō-nya-* § 24 p. 41.

Balto-Slavonic.

§ 45. During the proethnic period of Balto-Slavonic only a few new uses seem to have been developed. Two points may be mentioned.

1. The original Indo-Germanic compounds with **p-* 'un-' (Class II) gave way to compounds with **ne* 'not'. Cp. Lith. *ne-gālė* 'weakness, sickness, disease' O.C.Sl. *ne-mošť* 'feebleness, weakness', with Lat. *in-valitūdō* O.H.G. *un-maht*. Besides **ne-*, another particle, which appears in Lith. as *bė*, in O.C.Sl. as *bezŭ*, and is connected with Skr. *bahiṣ* 'outside, without', had no doubt begun to be used as a negative prefix; cp. Lith. *be-dūgnis* O.C.Sl. *bez-dŭnŭ* 'groundless', Lith. *be-dėvis* O.C.Sl. *bez-bogŭ* 'godless'.

2. The compound adjectival declension came into use, as Lith. *geras-is* 'the good (masc.)' = *gėras įis* (I § 147 p. 131), O.C.Sl. *novŭ-jŭ novy-jŭ* 'the new (masc.)' (I § 84 p. 80).

§ 46. Lithuanian.

Class I. The nom. sing. of compounds of this group generally ends in *-is* masc. (gen. *-io*) and *-ė* fem. (cp. § 63).

Stems in *-o-*. Where the second member begins in a consonant, *-a-* is found less and less frequently in the course

of the literary period; the conditions of its loss still need careful investigation (cp. I § 636 p. 477, § 664, 1. 2 p. 522). The old form *veida-mainis* is now *veid-mainys* ('changing the countenance') 'hypocrite' from *vėida-s* 'countenance'. Old form *auksa-kasis*, modern *auks-kasis* 'gold-digger' from *auksa-s* 'gold'. *darbā-vėtė* 'place of work' from *dārba-s* 'work', *svetimā-szalis* 'foreigner, stranger' from *svėtima-s* 'strange', *gera-dėjis* 'benefactor', *visa-galīs* (beside *vis-galīs*) 'all-powerful, almighty' (or perhaps the last two contain an acc. neut., and belong to Class IV?). *szón-kaulis* ('side-bone') 'rib' from *szóna-s* 'side of the body', *vilka-paūtis* 'wolf's egg' (a kind of malodorous fungus) from *vilka-s* 'wolf', *minkszt-prōtis* 'weak in mind, soft-head' from *minkszta-s* 'soft, tender'. In Prussian -a- is generally kept, e. g. *lauca-gerto* 'partridge' from *lauka-n* acc. 'field', *labba-segtyna-n* acc. 'benefit' from *labba-s* 'good'.

Where the second member begins in a vowel, -a- is always dropped, e. g. *vėn-ākis* 'one-eyed man' from *vėna-s* 'one'. In Prussian on the other hand (as in Slavonic, § 47) the stem-final is kept; *dago-augis* 'summer shoot or sprout' beside *daga-gaydis* 'summer wheat' (cp. *deina-algenika-* below, p. 80).

Forms containing the suffix -io-. We still find -ja- in the older authorities, e. g. *nauja-vedis* 'newly married man' from *naūja-s* 'new'; cp. Pruss. *caria-uoytis karige-wayte* 'review' (*g* in *karige-* = *j*), *crauya-wirps* 'blood-letter' from *crauyo krauvia* 'blood'. In the modern language -io- stems are treated as though they were stems in -o- or -i-. The stem-final has been lost e. g. in *jaut-vedė* 'leading-rope for oxen', *jaut-akis* 'ox-eye' (a plant) from *jāutis* -cžio 'ox', *vėžligė* 'cancer' from *vėžỹ-s* 'crayfish', *krau-leidys* 'blood-letter' from *kraūja-s* 'blood'; examples with -n- are *grėbl-ā-kotis* 'rake-handle' from *grėblỹ-s*, *brōl-ā-vaikis* 'brother's son' from *brōli-s*. Cp. also *naujī-kaulis* 'bony excrescence'.

Remark 1. We meet with spellings like *nauj-veda* beside *nau-vedė* 'newly married man', *krauj-gyslė* 'vein of blood', *vėj-malūnis* 'windmill' (cp. *bažnyčz-kėmis* beside *bažnyt-kėmis* below). These forms cannot be said to represent the stage preceding the loss of the *j*, which is only restored in them from the uncompounded word.

Remark 2. This treatment of *jo*-stems in composition, which is also found in Lettic, reminds us of the treatment of the same stems where they are extended by derivative suffixes: *jánt-akis* like *jant-ūžis jant-aitis* 'little ox'. The form *žem-obūlys* (from *žėmė*), which will be noticed further on, should be compared with *karc-ūžė karc-aitė* 'little cow' from *kārė* 'cow'. In Prussian *kel-laxde* 'spear-shaft' (beside *kelia-n* 'spear') seems to correspond to these Lithuanian compounds.

Stems in *-a-*. *-ō-* is quite rare; the example *sziksznó-sparnis* 'bat' was mentioned on p. 25. These stems are usually treated like stems in *-o-*. *galva-žudlys* and *galv-žudlys* 'murderer' from *galvā* 'head'. *vasarā-sziltis* 'warmth of summer'. *barzd-skulys* 'beard-shaver, barber' from *barzdā* 'beard'. *nugar-kaulis* 'backbone' from *nugarā* 'back'. *bat-ūpė* 'moorland stream' from *batū* 'moor, marsh', *vasar-augis* 'this year's shoot' from *vasarā* 'summer', like *vėn-ākis*; cp. on the other hand Pruss. *deina-atygenikamans* dat. 'to day-labourers' from *deina-n* acc. f. 'day' (Lith. nom. *dėnā*).

Feminines in *-ia -ė -i* are treated like the *-jo*-stems. *gīr-paršzīs* 'little wild pig' from *gīria gīrė* 'wood'. *bažnyč-kėmis* (also *bažnycz-kėmis*, see Rem. 1) 'village with a church' from *bažnyčia* 'church' (borrowed from Slav.). *žėm-skirė* 'landmark, field-boundary', *žėm-obūlys* 'earth-apple' from *žėmė* 'earth'. *marčt-mergė* 'bridesmaid' from *marči*, gen. *marčiōs*, 'bride'. An example with *-a-* is *kregžd-a-žolė* 'swallow-wort' from *kregždė* 'swallow'. In Prussian, the feminines which correspond to the Lith. feminines in *-ė* show *-e-* and *-i-*, the equivalents of Lith. *-ė-*, e. g. *ape-witwo* 'river-willow, osier' from *ape*, Lith. *ūpė* 'stream', *wosi-grabis* 'spindle-tree' from *wosee* 'goat' (Lith. **ožė*, cp. masc. *ožỹ-s*).

Stems in *-i-*. *tri-rāžīs* 'three-pronged'. In words of more than one syllable *-i-* is rare, e. g. *nakti-kovīs* 'roving at night'. The forms are usually without *-i-*, as *ak-mirkīs* 'twinkling of an eye, moment' from *akī-s* 'eye', *ānt-kiauszis* 'duck's egg' from *ānti-s* 'duck'; cp. Pruss. *perst-lansta-n* 'dust-window, window-shutter' beside O.C.Sl. *prŕstŕ* f. 'dust'. Here and there we have *-a-*, as *ugn-ū-vėtė* 'fireplace' from *ugnī-s* 'fire' (cp. *darbā-vėtė*).

Remark 3. These stems may have first followed the analogy of stems in *-o-* (*ugn-a-*) and then dropped the *-a-* (*ak-ant-*), or else the *-i-*, where it does not occur, may have fallen out by regular phonetic change, leaving the forms to be remodelled by the analogy of compounds like *darbū-vėtė*. In any case this group of compounds also (see Rem. 2) must be compared with diminutival formations like *ak-ūžė* 'little eye' *ugn-ūžis* 'little fire' etc.

Remark 4. *aky-mojis* = *akiu mojis* 'moment, twinkling of an eye' *aky-moju* 'instantaneously' (which we can scarcely suppose to have been influenced by forms like *akų-ti akų-la-s* etc.) may perhaps contain the nom. acc. du. used as the dual stem, *akì* for **akē*, see I § 684 p. 523. Cp. the retention of the original *i* in *trylika* 'thirteen'. Whether *ie* in Bretken's *akie-mirksnis* 'moment' (Bezenberger's Beitr. zur Gesch. d. lit. Spr. 270) stands for *ia* is doubtful. — It may be asked in passing how we should regard the *y* in *aby-pusė* 'on both sides', which contains the dual abl *pusi*, where *abl* comes from **abē*. Should we compare (in spite of the different accentuation) the relation of *apy-* to *api- apė*, of *pry-* to *pri- prė*?

Stems in *-u-*. *-u-* was on the whole rather better preserved than *-a-* and *-i-*. *alū-daris* 'brewer' from *alū-s* 'beer'. *virszū-galvis* 'upper part of the head, crown' from *virszū-s* 'upper (part)'. The loss of *-u-* (*-ju-*) and the intrusion of *-a-* in its stead appear to be connected with the partial transition of *u-*stems into the *o-*decl.: *pēt-valgis* 'midday meal' from *pētūs* pl. 'midday', *žmog-žudys* 'murderer of men' *žmog-ėdys* 'devourer of men' from *žmogūs* 'man', *gyr-pelnys* 'ambitious person, braggart' from *gýriu-s* 'fame', *pig-ā-kalbis* beside *pig-kalbis* 'proficient in speaking' from *pigū-s* 'easy, cheap'. The form *placz-kojis* beside *plat-kojis* 'broad-foot' (*platū-s* 'broad') is explained by reference to the cases which have *-io-*, as dat. sing. *placziā-m*, cp. *bažnyč-kėmis* beside *bažnyt-kėmis* p. 79.

Amongst consonantal stems there is scarcely a single example of a genuine type which has not undergone some destructive change in the course of its development. *szūn-obūlei* pl. ('dog's-apples') 'hawthorn' from *szū*, gen. *szuñs*, 'dog', like Gr. *κυν-ωνις*, can scarcely be considered a direct representative of an original type; this is shewn by the forms *szun-musė* 'dog-fly' *szuñ-szūdis* 'stercus caninum', which by the rules of formation in Indo-Germanic should have been **szvin-* (= Skr. *śva-* Idg. **kyn-*). *móter-žolės* pl. 'mother-wort'

(from *mólė*, gen. *motė̃s*, 'woman') shows the strong form of the stem, in contrast to the original type.

Class II. Of this class there is no trace in Baltic.

Class III. *pra-miūtas* 'named': Skr. *prā-mata-s* 'contrived, uttered'. *pér-pintas* 'plaited crosswise': O.C.Sl. *prě-petŭ* 'drawn outwards, outspread'; *pér-jūstas* 'girt over, girt about': Gr. *περίωστος* 'girt about'.

pér-galvė 'that which is laid over or around the head, hood': cp. (Gr. *περι-κεφαλῶν περι-κεφαλαῖα* 'head-covering'. *apý-vakaris* 'the time towards evening' (*apė vākarą*). *pa-stalė* 'drawer under the table' (*põ statlũ*).

āt-laikas *āt-lėkas* 'remnant': O.C.Sl. *otŭ-lėkũ*. *sán-dora* 'concord', *są-szlavos* pl. 'sweepings': cp. O.C.Sl. *sa-* Skr. *sum-*.

ne-kàs 'scarcely any one, hardly any one'. *ne-vėna-s* 'not only one, not alone', but Pruss. *ne-uins ni-uins* 'no one', cp. Lat. *noenu-m nōn*.

Class IV. *dù-szintu* 'two hundred' *trj-szintai* 'three hundred' (for **trys-szintai* according to I § 664, 6 p. 524) beside *dù szintũ* = *trj(s) szintaĩ*. *trj-lika* 'thirteen' *keturió-lika* 'fourteen' no doubt contain the nom. acc. pl. neut. Accusative forms: *szĩ-mėt* 'this year', *szĩ-nakt* 'this night', *anā-syk* 'that time' for *szĩ mēta*, *szĩ naktĩ*, *anā sykĩ*. We have no doubt instrumentals in *szė-pus* 'on this side' *anā-pus* 'on that side' from *pūsė* 'half'. *aby-pusė* 'on both sides' is formed from *abi pusĩ* 'both sides' (cp. Rem. 4). Du. nom. masc. *jũ-du* fem. *jė-dvi*, dat. instr. masc. *jėm-dvėm* fem. *jóm-dvėm*, from *jĩs* 'he' and *dũ* 'two', similarly du. *paczĩu-du* from *pàts* 'self', with other forms of the same sort.

In some dialects we find *kas-vākaras* adj. 'every evening' *kas-mėts* adj. 'every year', originally subordinate relative clauses, i. e. 'which ever evening (year) it may be' (the Author, Lit. Volksl. u. Mārch. 320, and for a similar usage in Slavonic see Miklosich, Vergl. Gr. II 376, IV 87). In other dialects the analogy of accusatives of time like *tā* (*szĩ*) *vākara* 'in the evening (this evening)' gave rise to *kasvākara*, *kasmėta*, similarly *kasdėna* 'daily' and other forms; and, with loss of the

ending, *kasmēt kasdēn* etc.; and further, derivatives like *kasdēnis kasdēnnis* 'daily'. Cp. Lat. *quotannis* § 36 p. 63.

Compounds having a dependent genitive for their first member are rare; e. g. *szuns-ūdēgius* ('dog-tailed person') 'flatterer, fawner' from *szū*, gen. *szūns*, 'dog'. There are more examples in Lettic, as *femes-māte* 'earth-goddess' from *feme* = Lith. *žemė* 'earth'.

Remark 5. How are we to regard *būts-angē* 'house-door' (*būts-s* 'house'), and Lett. *gads-kārta* 'time of year' (*gads* 'year', stem *gada-*) which seems to be a form of the same kind? Was there a stem **butes-*? (No great importance perhaps should be attached to the Prussian form *buttas-tāws* beside *buttan-tāws* and *butta-tāwas* 'house-father').

Further, what is the origin of the *y* in *karsztýmetis* 'hot time' (*kársztas* 'hot', *kařszti-s* m. 'heat'), *brangýmetis* 'dear time, dearth' (*brangūs* 'dear'), *darbýmetis* 'work-time' (*dárba-s* 'work'), *vasarýmetis* 'summer time' (*vasarà* 'summer')? Should we start from the nom. pl. *karsztì mètai* (cp. *aby-pusei* from *abi pusi*, Rem. 4) or a form **karsztýn-mètai*? For the general use of the ending *-ymetis* cp. Gr. *-ημέρος -ημερίς* § 29 Rem. p. 47.

kits kitā 'one another' is now regarded so much as a single word that the first part retains its masculine form even when the subject is feminine. In Bretken (16th century) we still find *moteriszkēs gēdōja prēs kitā kitā* 'the women sang against each other'.

§ 47. Slavonic. Class I. Many of the following examples are not popular combinations, but a scholar's translations of Greek compounds.

Stems in *-o-*. The stem has *-o-*, whether the second member begins with a consonant or a sonant. O.C.Sl. *bogo-rodica* 'mother of God' from *bogū* 'God', *črīno-vlasū* 'black-haired' from *črīnū* 'black', *črīno-okū* 'black-eyed', *bogo-izbranū* 'chosen of God'. *bogo-učenū* 'taught of God'.

Forms with *-ie-* from *-io-* (I § 84 p. 80): *voje-voda* 'leader of a host' from *voji* pl. 'warriors, soldiers', *lūže-prorokū* 'false prophet', from *lūžī* 'lying, false', *gnoje-imenitū* 'κοινοῦνομος' (nickname of a Byzantine emperor) from *gnojī* 'dung', *maže-ubijica* 'homicida' from *mažī* 'man'. Through the preponderance of the forms with *-o-*, this sound often took the place of *pr.*

Slav. *-e-* in later Slavonic, e. g. Serv. *konju-zobica* ('equum nutriens') 'bag of fodder'.

Stems in *-a-* always show the ending of the *o*-stems. *vodo-nosū* 'water-vessel' from *voda* 'water', *raĥo-přsaniĥe* (χρὸ-ζῶραρον) 'bill of debt, bond' from *raĥa* 'hand'; *raĥo-obyčĭnū* 'accustomed to the hand, tame'. *zemiĥe-měriĥe* 'land-measurement, geometry' from *zemlja* 'land', *zmiĥe-nožĭnū* 'snake-footed, with feet of or like snakes' from *zmiĥa* 'snake', *duše-gubĭnū* 'destroying the soul, annihilating' from *duša* 'soul', *zmiĥe-obrazĭnū* 'having the form of a snake', *duše-ubijĭca* 'murderer of souls'. Serv. *zmijo-glav* 'snake-headed' for the older and true form *zmiĥe-*.

Stems in *-i-*. *trĭ-zabū* 'trident' from *tri* 'three'. Many examples have *-o-*, following the analogy of *o*-stems: as *gosto-ljubioū* 'hospitable' from *gostĭ* 'stranger, guest', *zvěro-vidĭnū* 'having the appearance of a wild beast' from *zvěri* 'wild beast', *sūmrĭto-nosivū* 'death-bringing' from *sūmrĭtĭ* 'death', *zvěro-obrazĭnū* 'having the form of a wild beast'. We often find *-e-* (but this is late), e. g. *zvěre-vidĭnū* beside *zvěro-vidĭnū*, *zvěre-imenitĭnū* beside *zvěro-imenitĭnū* 'named after an animal', *pačē-počēdĭ* 'guide'.

Remark. It is a question whether in the latter examples *-e-* is the *e* of the stems in *-jo-* (*roje-* etc.), as Osthoff assumes (Verb. in d. Nominale. 213), or the *e* of forms like *pačē* for *pačimĭ* (I § 36 p. 36, Leskien, Handb.² p. 21 ff.). Osthoff's view seems to be the true one.

Stems in *-u-* have *-o-*. *syno-tvorĭenĭje* 'εὐνοίας, reception into the position of a son' from *synū* 'son'. *medo-točĭnū* 'sweet-streaming' from *medū* 'honey'. Compare the transference of *u*-stems to the *o*-declension, which is found in the very earliest authorities; such forms as *synochū* instead of *synūchū* (I § 52 p. 44, and Leskien, Handb.² p. 21 ff.), need hardly be taken into account; see the last Remark. As regards *medvĕdĭ* see § 12 p. 26.

krāv-o-politĭje 'bloodshed' from the stem *krāv-* 'blood', gen. sing. *krāv-e*, Idg. stem **grau-* **grā-*, cp. Gr. ἰχθὺν-ο-φάγος. Yet the forms with *-o-* may not have sprung up until after some

of the cases of the word had been formed afresh in the *i*-declension, as nom. *krŭv-i*.

Stems in *-n-*. *kamen-o-vidinŭ* 'having the appearance of a stone' from *kamy* 'stone'. *imen-o-nosinŭ* 'bearing a name' from *imę* 'name'. The original types of formation seem to have completely disappeared.

Stems in *-r-*. *matere-dosaditelŭ* and *matere-ubiŭica* 'matricide' like *zvěre-vidinŭ* (see p. 84 above). Beside these we have, without *-o-*, *četrě-gubŭ* 'quadruplus' for **četver-gubŭ*.

Stems in *-s-*. Generally *-o-* appears instead of *-es-*; *čudo-točŭnŭ* 'sending forth wonders, spreading them abroad' from *čudo* 'wonder', *oko-izmelŭnŭ* 'casting out the eye' (on the other hand Russ. and Serv. have *oče-*, Russ. *oče-vidnyj* 'appearing to the eye') from *oko* 'eye'; compare the transference of forms from the *es*-declension to that of *o*-stems, as instr. sing. *neboŭ* beside *nebesŭmŭ*. More rarely we find *-es-o-*, as *čudes-o-točŭnŭ* beside *čudo-točŭnŭ*, *nebes-o-podražatelŭnŭ* 'imitating heaven', ep. loc. pl. *nebesěchŭ* instead of *nebesichŭ*.

Of Class II no examples remain in Slavonic.

Class III. *pro-strŭtŭ* 'outstretched': ep. Skr. *prá-stŭrŭna-s* 'stretched forth, outspread'. *u-veštŭ* 'crowned' *u-čeŭti* 'to crown': ep. Pruss. *au-klipt-s* 'hidden' Skr. *áva-hata-s* 'struck back, driven off; slain'. *iz-ętŭ* 'taken out' *iz-ęti* 'to take out': Lith. *isz-iŭta-s* *isz-iŭti*.

pri-morię 'the region by the sea' (*pri mori*). *na-glavię* 'turban' (that which is on the head [*na glavě*]). Cp. Miklosich, Denkschr. d. Wiener Ak. XIII 19 f.

sq-logŭ 'consors tori': ep. Gr. *ἄ-λογος*, Idg. **som-* **sqŭ-* 'together, with'. *pa-dŭŭŭti* 'step-daughter': Lith. *pó-dukra*.

Class IV. *bratŭ-sestra* 'brother and sister'; this was inflected like the nom. du. of an *o*-stem, hence *bratŭsestroma*; compare the dimin. *bratŭsestrŭca*. *Jisusŭ-Christosŭ* has gen. *Jisusŭ-Christosa*. *dŭva-desętinŭ* 'twentieth' (beside *dvo-desętinŭ*), derived from *dŭva desęti* (two decades) 'twenty'. Many similar examples occur in modern Slavonic dialects; e. g. in Polish *wielka-noc* ('great night') 'Easter' has gen. dat. *wielkanocy*.

polu-nošti 'in the middle (loc.) of the night (gen.), at midnight', and similarly *polu-dine* 'at midday'; compare *polu-noštije* 'midnight' *polu-dniije* 'midday', *polu-noštinnū* adj. 'of midnight' *polu-dninnū* adj. 'of midday'. *obonūpolinnū* 'situated on the further bank', derived from *obū onū polū* 'on that side, on the further bank'. *peti-na-desetinnū* 'fifteenth', derived from *peti na desete* ('five on ten') 'fifteen'. With -o-, the 'vowel of composition', inserted: *osmo-na-desetū* 'eighteenth', cp. Gr. *καλο-εἰκοστή* § 30 p. 51. Compare on this subject Baudouin de Courtenay in Kuhn-Schleicher's Beitr. IV 204 ff.

krūvi-prolitije (beside *kruv-o-prolitije*, see above) 'bloodshed', gen. of *krūvī* 'blood'. *domu-zakonnikū* 'house-manager', gen. or loc. of *domū* 'house'. *bratu-čeda* (beside *brato-čeda*) 'brother's daughter', dat. (possessive dat.) of *bratū* 'brother', *bogu-mrīzūkū* (beside *bogo-mrīzūkū*) 'hated of God' *bogu-milū* (beside *bogo-milū*) 'dear to God' (proper name), dat. of *bogū* 'God'. *doma-čedīcī* 'domi natus, vernaculus' *doma-živīcī* 'living at a place, inhabitant', *doma* adv. 'at home' from *domū*. As the special meaning given by the case of the first member became obscured, there sprang up formations like Czech. *Bohu-sud* on the analogy of *Bohu-mil*, cp. O.C.Sl. *bogo-sadīnē* adv. 'dei iudicio'.

The -i- appearing in the cases of the *i*-stems (*krūvi-prolitije*) was connected in popular usage with verbs in -iti and treated as having an imperatival force. Such a form, for instance, as *Misti-drugū* (Czech. *Msti-druh*) was properly 'ultionis socius', *mīsti* being gen. of *mīstī* 'vengeance'; but since *mīsti* was also 2. sing. impv. of *mīstiti* 'to avenge', the word came to be regarded as meaning 'ulciscere socium'. This change of meaning produced a large number of compounds which were either formed on the new type, or altered to suit it, e. g. Serv. *Ljubi-voj* ('love the warrior', *ljubiti* 'to love') instead of **Ljubo-voj*, cp. *Ljubo-brat* 'φιλάδελφος'. See Osthoff, Verbum i. d. Nom. p. 209 ff. Cp. § 30. 41.

NOUN COMPOUNDS CONSIDERED IN RESPECT OF THEIR MEANING.

§ 48. In Stem-Compounds of the proethnic Indo-Germanic type (e. g. Skr. *aśva-hayá-s* Gr. *ἰνπó-βορο-ς*) the nature of the relation which the first member of the compound bore to the second was quite undefined to start with. It was implied solely in the particular meaning which happened to be assigned to any one such combination. The logical relation between the two parts must naturally have assumed a different character in different cases. If the parts of a compound meant 'sun' and 'moon' respectively, the logical connexion between them would not be the same as if they meant 'sun' and 'beam': 'sun *and* moon' in the first case, 'beam *of* the sun' in the second. If words meaning 'man' and 'slaying' were compounded, they would be related in one way ('slaying a man'); words meaning 'spear' and 'slaying', in another ('slaying with the spear'). A number of compounds whose parts had the same logical connexion would form a group, and many such groups arose in the proethnic Indo-Germanic period. Hence even the proethnic compounds of noun-stems may be arranged in a series of Classes according to their meaning. These Classes, we shall find, need no serious extension to include all the compounds of this kind formed at later times in the separate languages.

The compounds whose initial member was a definite inflexional form have a different history. From the first this inflected form gave to the relation between the parts a perfectly defined meaning, e. g. Skr. *divi-jd-* 'born in heaven', *divō-rúc-* 'shining from heaven'. It must be observed, however, that in later times the special meaning attached to the inflexional ending of the initial member was often forgotten. Cp. § 17 p. 32 f.

The native grammarians of India and modern students of language in Europe have devoted much labour to the task of classifying compounds according to their meaning.

Remark. It must be confessed that in these attempts at classification scholars have almost from first to last allowed too much influence to a

desire for logical symmetry, and too little to the true historical method, which abstains from all criticism that is merely *a priori* and that is not directly suggested by and limited to the nature of the facts to be studied. In particular it is often forgotten that in most compounds the mutual relation of the two parts in the mind of the speaker which the scholar has to reproduce is a conception far too indefinite and variable to be confidently assigned, as too often it is, to this one or that of the numerous classes of meaning. Hence there has often been a needless amount of contention as to whether a compound belongs to one class or the other, whether for example Skr. *sakhi-gaṇa-* (*sakhi-* 'friend', *gaṇa-* 'band') is one of the Dependent [Whitney, Skr. Gr. § 1263] or of the Descriptive [ib. § 1279] compounds (whether it is equivalent to 'amicorum caterva' or 'amica caterva'); or whether *πατρις* in *πατρις-πορεύς* 'patricide' is to be regarded as genitive or accusative. But as a rule these precise relations of meaning were simply imported into the words by the grammarian — a mistake natural enough where a paraphrase was needed to render the compounds into other languages — whilst the speakers themselves were content with a general impression of the meaning. If the established canons are to be strictly maintained, we must at least allow a large number of intermediate stages, in which the different classes meet.

§ 49. There are two leading principles by which we can distinguish the different kinds of compounds, which go back to the proethnic period and which are of primary importance in any attempt to classify the compounds according to their meanings. First 'coordinating compounds, (called in Sanskrit *dvandva*) are opposed to 'subordinating compounds'; and secondly 'non-epithetised' (nicht mutierte) are opposed to 'epithetised' (mutierte) compounds'. But in neither pair were the contrasted classes ever absolutely distinct; there were always various intermediate stages between one class and the other.

In the first of the two contrasted classes, the coordinating compounds, the two members stand side by side on the same level, nothing more being implied than the addition of two items; these may be regarded as joined together by 'and', whence such compounds have been called 'copulative'. In subordinating compounds, on the other hand, one member is defined more closely by the other; the one contains the principal idea, the other is merely an adjunct subordinated to it.

The subordinating compounds certainly formed by far the larger group in the Indo-Germanic period, and so it has remained in nearly all the subsequent developements of the separate languages (Sanskrit is an exception, see p. 90 f.). The way in which one of the two members was defined by the other was shewn in each case by their meaning or grammatical character, and in all periods it has varied between very wide limits. We may instance the following groups of compounds with parallel meanings in the different languages.

1. Skr. *rāja-r̥ṣi-ś* 'a sage who is a king, royal sage', Gr. *ἰατροό-μαρτις* 'a seer who is a physician', Lat. *angui-pēs* 'having a foot which is a serpent, serpent-footed', O.Ir. *rīg-faith* 'a prophet who is a king, royal prophet' *bun-chu* 'a dog which is a female, bitch', Goth. *þiu-magus* 'a boy who is a servant' (translation of *μαῖς*) O.H.G. *gold-ring* 'a ring which is gold, gold ring', Lith. *obel-medis* 'a tree which is a pyrus malus (*obells*), apple-tree', O.C.Sl. *konje-člověkū* 'a man who is a horse, centaur'.

2. Skr. *mātṛ-śvasar-* 'mother's sister', Armen. *skesr-air* 'mother-in-law's husband', Gr. *πατρ-ἀδελφος* 'father's brother', Lat. *mūs-cerda* 'mouse's dung', O.Ir. *rīg-thech* 'king's house', Goth. *þiudun-gardi* f. 'king's house', Lith. *brol-ā-vaikis* 'brother's child' O.C.Sl. *brato-čeda* 'brother's daughter'. Cp. compounds containing genitive forms like Skr. *mātuh-śvasar-* 'mother's sister', Armen. *haur-elbair* 'father's brother'.

3. Skr. *adhara-hanú-ś* 'lower jawbone', Armen. *kaj-air* 'valiant man', Gr. *ἀκρό-πολις* 'upper city, upper part of the city', Lat. *plēni-lūnium* 'full moon' *longi-pēs* 'having a long foot', O.Ir. *find-folt* 'having white hair', Goth. *hrāinja-hairts* 'having a pure heart', O.H.G. *junc-frouwa* 'young lady', Lith. *jā'd-varnis* 'black raven' *rud-kāklis* 'having a red neck' O.C.Sl. *krivo-nosū* 'crook-nosed'.

4. Skr. *saptá-r̥ṣy-as* pl. 'the seven wise men' (name given to the Great Bear) *tri-vātrá-m* 'space of time including three nights', Armen. *hing-am* 'five years, quinquennium', Gr. *τρί-πους* 'three-legged frame' *τέττα-ππων* 'team of four horses', Lat. *bi-pēs* *tri-noctium*, O.Ir. *tre-choste* 'tripod' Gall. *tri-garanus* 'provided

with three cranes', O.H.G. *zwei-houbit* 'having two heads', Lith. *tri-rāšis* 'having three prongs' O.C.Sl. *trǐ-zabŭ* 'having three teeth'.

5. Skr. *tāmra-dhūmrá-s* 'dark tan-coloured', Gr. *ὀχρό-ξανθός* 'pale yellow', O.Ir. *dub-glass* 'dark blue', Mid.H.G. *bleich-grüne* 'pale green', Lith. *jū'd-bėris* 'black-brown' Russ. *světlo-zelenyj* 'light green'.

6. Skr. *vēda-vid-* 'knowing the Veda, Veda-knower', Gr. *βορ-αλήξ* 'goadng oxen, ox-goad', Lat. *jū-dex* 'declaring right, judge'.

In this way a large number of categories may be distinguished; but the boundary line between any two is never clearly marked.

The coordinating compounds have nowhere been largely developed except in Sanskrit, and there only in the post-Vedic period. Probably there was a time in proethnic Indo-Germanic when no compounds of this class existed except those which had a case-form for their initial member, e. g. **duō-dekēn* 'twelve' (2 + 10): Skr. *dvā-daśa* etc., see § 16 p. 32; and *dvandva* compounds with a stem for the initial member only arose when compounds containing a case were re-modelled on the analogy of the older subordinating class, which had the simple stem. This process of conversion may often be traced with certainty in historical times, e. g. Skr. *parjanya-vāta* instead of the older form *parjanya-vāta* 'raincloud and wind' (§ 24 p. 41), cp. also Gr. *καλο-κάγαθία*, *νηπινο-καυβλεπέλαος*, O.C.Sl. *osmo-naulesetŭ* (§ 30 p. 51), and Skr. *pūrva-pūrvas* for *pūrvas-pūrvas* and the like, § 53. The use of the stem instead of a case cemented the combination more firmly; and such a process would be all the more natural because many compounds of the subordinating class approach very closely to the coordinating compounds in regard to the particular relation subsisting between their parts, and there was never any sharp distinction between the two groups (cp. p. 91).

Whether *dvandva* compounds were formed with the simple stem in proethnic Aryan is doubtful. Even in the Rig-Veda, coordinating compounds containing the simple stem

occur only rarely by the side of those containing a case; e. g. *ajāvāyas* (*aja-avāyas*) pl. 'goats and sheep'. The extension of the class is a special developement in Sanskrit, spreading only by slow degrees, until in the classical language we find any number of nouns thus strung together into what was grammatically a single word, as *mukhabāhūrūpādatas* (*mukha-bāhū-uru-pādatas*) 'from countenance, arms, thighs, and feet'. In non-Aryan languages, coordinating compounds containing a stem are, on the whole, comparatively rare. In Greek no clear examples occur until rather late, e. g. *λυρ-ασπιδ-* 'lyres and shields' seen in *τορνεύτο-λυρασπίδο-πηγός* 'joining together turned lyres and shields'¹⁾, *νυχθ-ήμερον* 'diem noctemque', *λουτρά ἀνδρῶ-γυναι* 'baths for men and women alike', *λευκο-μέλας* 'white and black'; in Modern Greek there are many formations of this kind, as *γυναῖκό-παιδα* 'women and children', *μαχαιρο-πίσσορα* 'knives and forks'. Lat. *reci-procu-s*, originally 'going backwards and forwards' (§ 86 a), *su-ove-aurilia* (the form *su-ovi-aurilia* is perhaps more correct) 'a sacrifice in which a pig, a sheep, and an ox are slain'. In Keltic and Germanic I know of no examples except those whose initial member may conceivably be a case, as Mid.Ir. *brat-gaisced* 'mantle and weapons' *gorm-gel* 'blue and white' O.H.G. *sunu-fatur-ungo* Hild. 4 'people of the son and the father' (-*unga-* is a suffix which denotes 'belonging to' something, cp. § 88) and O.Sax. *gi-sūn-fader* 'son and father', whose initial member may be nom. sing. (cp. O.C.Sl. *bratŭ-sestra*, where it is certainly so). Lith. *vyr-moterinis* 'concerning man and wife, concerning married people', Lett. *misch-āufas* 'barley and oats'; O.C.Sl. *maže-ženŭ* 'having the nature of man and of woman, ἀνδρόγυνος' (Gregor. Naz.), Russ. *bělo-rumjanyj* 'white and red' (of the face).

We have already remarked that there is no fixed boundary between coordinating and subordinating compounds. The Greek *ἰατρο-μαρτυς*, which was placed in the latter class on p. 89, may

1) This would be a *dvandva* compound even if the scholiast's explanation were correct: οἱ τορνεύοντες λύρας καὶ ἀσπίδας πηγύουσι.

be also taken to mean 'one who is physician and seer', and similarly there are two possible explanations of such compounds as *τράγ-έλαφος* 'goat-stag' *γλυκύ-πικρός* 'bitter-sweet', Lat. *dulc-acidus*, and many more in all the Indo-Germanic languages.

§ 50. The distinction between the two classes of compounds which we term 'non-epithetised' and 'epithetised' (other terms widely used are 'primary' and 'secondary', compounds of 'lower' or of 'higher order'; the second class is called by the Sanskrit grammarians *bahuvrīhi*) depends upon a certain change of meaning in the compounds, developed in proethnic Indo-Germanic, and since that time constantly repeated in new-examples. For instance, **dis-menes-* 'evil mind' (*immutatum*) acquired the meaning 'an evil-minded person' (*mutatum*) (nom. sing. Skr. *durmands* Gr. *δυσμενής*), and in Modern German *dick-kopf* 'thick-head' means 'a thick-headed person' [cp. Eng. *redbreast* etc.] The essential point in this process is the conversion of a substantive into an adjective; the concrete meaning was disregarded, so that the idea remaining in the word was solely that of the quality or qualities which belonged to the concrete person or thing. This developement of meaning is one which may often be traced even in uncompounded substantives, and it will often meet us again in the course of our investigation. The substantival origin of these forms is still sometimes shewn in the deficient expression of their adjectival function; e. g. in Greek *ρόδοδάκτυλο-* 'rosy-fingered' was used in spite of its -ο- for the fem. as well as the masc., and *χρῶσο-κόμη-* 'golden-haired' in spite of its -η- for the masc. as well as the feminine. But extended formations were very soon developed to give fuller expression to the adjectival character of the compounds; for instance the adjectival -ιο- had come to be used as a convenient affix in the proethnic period: cp. Skr. *dāśa-mās-īya-* 'happening every ten months' etc., § 63, 2. It is probable, as we saw in § 19 p. 35, that there was even then a difference in accentuation between the *mutata* and the *immutata*.

The student must be on his guard against the idea that every epithetised compound in the Indo-Germanic languages

has passed through this course of developement for itself. By far the greatest number were formed with the derived sense, on the model of older forms.

Both subordinating and coordinating compounds containing substantives are found with the epithetised meaning; e. g. Gr. *πολύ-αινος* 'having much wine' and *ἀνδρό-γενος* 'intended for men and women' (*λουτρόν*). Examples have been given in the preceding section, and to these a few may be added from the group of subordinating compounds. Skr. *hiranya-kēśa-s* 'golden-haired', Armen. *hast-a-bazuk* 'strong-armed', Gr. *λευκ-ώλενος* 'white-armed', Lat. *māgn-animus*, O.Ir. *nocht-chenn* 'bare-headed', Goth. *hráinja-hairts* 'who has a pure heart', Lith. *minksz-galvis* 'who has a weak head' = 'soft-headed' O.C.Sl. *črino-clasū* 'black-haired': cp. the non-epithetised compounds Skr. *adhara-hanú-s* 'lower jawbone', Gr. *ἀγρό-πολις* 'upper city' etc. p. 89. Skr. *a-putrá-s* 'who has not a son, sonless' Armen. *an-kin* 'who has no wife, widower', Gr. *ἄ-παις* 'childless', Lat. *im-berbis*, Mod.Cymr. *an-niwedd* 'endless, unending' (from Mid.Cymr. *diwedd* 'end' = O.Ir. *dēad*); in Germanic and in Balto-Slavonic there is no group of epithetised compounds with **g-* 'un-', but cp. Mod.H.G. *eine verfolgte unschuld* = 'innocent person', lit. 'persecuted innocence', Lith. *ne-kalbū* 'no-speech' = 'who says nothing'. Parallel to these are the non-epithetised compounds, Skr. *á-kumdra-s* 'no boy (any longer)', Lat. *in-imīcu-s*, O.H.G. *un-chraft* 'weakness', etc.

Finally we must observe that even between *mutata* and *immutata* no sharp line can be drawn. Take for example the Greek *ἀδωγα δῶγα* 'gifts that are no gifts' (Soph. Aj. 665). Here *ἄδωγα* may be regarded equally well as a substantive or an adjective; so also *πόλις νόπτολις* (Aesch. Eumen. 690) and similar instances. In these the feeling of the language may be as undecided as it is e. g. in the Mod.H.G. phrases *es ist not* 'there is need of it, it is needed', *er ist schuld* 'he is the guilty cause, it is his fault' and the like. Speaking generally, no sharp distinction between substantive and adjective can be drawn in the Indo-Germanic languages (§ 138).

REDUPLICATED NOUNS.¹⁾

§ 51. We distinguish three groups:

I. Forms in which the first element of the reduplication is a more or less complete form of the root, e. g. Skr. *gár-gar-as* 'eddy';

II. Forms in which it is a noun-stem, e. g. Skr. *sukha-sukhēna* (instr.) 'very gladly';

III. Forms in which it is a case-form, e. g. Skr. *divé-divē* 'daily, day by day' (loc.).

With the second group should be compared such compounds as Skr. *sukha-svāpa-s* 'pleasant sleep'; with the third, compounds like Skr. *divō-jā-s* 'child of heaven' (§ 10 ff.).

§ 52. Class I. A number of the words belonging to this class may have been either formed directly as nouns, or derived from older reduplicated verbal forms. No certain line of distinction can be drawn; and though we shall here take no account of verbal nouns in the strict sense, i. e. participles etc. (e. g. Gr. *νε-κράγ-ώς*), yet we must include many nouns which were certainly formed in connexion with the verbal system (e. g. Gr. *νε-κράγ-υό-ς*).

As regards forms with 'broken reduplication' see § 6 p. 13.

1. Many reduplicated forms derived from roots beginning in a consonant stand in more or less clear connexion with intensive verbal formations, as Skr. *dár-dar-ti* 'rends asunder, shatters'.

Skr. *gár-gar-as* 'eddy', Gr. *γάρ-γάρ-εῖν* 'uvula' *γέρον-γερον-ος* 'throat, gullet', Lat. *gur-gul-iō gur-g-es*, O.H.G. *quer-chal-a quer-ch-a* O.Icel. *kver-k* 'throat' (for the interchange of *r* and *l* see I § 282 p. 225 f.): cp. the Skr. intensive verbal forms, part. *jár-gur-āna-s* and 2 sing. *jál-gul-a-s*. Skr. *bam-bhar-a-s* 'bee', Gr. *πεμ-φο-ηδών* a kind of wasp: **bhem-bh(e)r-* for **bher-bher-*, see I § 282 p. 226. Gr. *τη-θή* 'grandmother' *τη-θί-ς* 'aunt', Lith. *dė-dė* 'uncle' O.C.Sl. *dě-dŭ* 'grandfather'.

1) The authorities on this subject are cited on p. 11, footnote 2.

Skr. *gad-gad-as* 'stammering', beside *gád-a-ti* 'pronounces'. *cañ-cal-cas* 'moving to and fro' beside 3. sing. *cañ-cal-ya-tē*. Avest. *ra-rem-a-* 'resting, reposing', from $\sqrt{\text{rem-}}$. Skr. *rē-rih-a-s* 'licking' *vē-vij-á-s* 'hastening'.

Gr. *βαρ-βαρ-ος* 'speaking unintelligibly': Lat. *bal-b-u-s*, cp. Skr. *bal-bal-a-karōmi* 'I stammer'. *γολ-γύλ-ος* 'round', beside *γανλός* 'milk-pail, vessel'. *παι-πάλ-η* 'flour-dust', beside *πάλ-η* 'flour-dust, dust', Lat. *pollen*.

Lat. *quer-quer-u-s* 'cold, so as to make one shiver'; compare perhaps Goth. *faúrht-s* 'timid' (Bezzenger in his Beitr. XII 77, and above, I § 444 p. 329). *Mar-mar* (Song of the Arval Brethren): Gr. *μόρ-μορ-ος* 'gleaming, shining'? (Pauli, Altital. Stud. IV 56 ff.). *derbiōsu-s* 'full of scabs or sores' for **der-d-y-* (I § 170 p. 150): Skr. **dar-dr-u-* *dar-d-ā-* 'eruption on the skin'. *can-cer* (I § 269 p. 217): Gr. *καρ-κί-τρο-ς* Skr. *kar-kāṭa-s* 'crab'.

O.Ir. *dor-d* 'susurrus' (cp. 3. sing. mid. *derdrethar* 'there is a sound, a cry'): Gr. *τερ-θρ-ι-ά* 'empty chatter' *τον-θρ-ύ-ς* 'murmur'. *graiḡ* 'drove of horses' for **grā-gi-*? Gr. *γέρ-γερ-α* *πολλά* Hesych., *γάρ-γαρ-α* 'swarm, heap' (*γαρ-γαίρω* 'I swarm'), Lat. *grex* stem *gre-g-*; cp. § 160 Rem. 1.

Mid.H.G. *mur-mer* *mur-mel* 'murmur, growl, dull sound' (O.H.G. *mur-mur-ōn* *mur-mul-ōn* 'to murmur'): Skr. *mar-mar-a-s* 'roaring, roar', Lat. *mur-mur*, cp. Gr. *μορμέρω* for **μορ-μυρ-ω* 'I murmur, roar', Lith. *mūr-m-iu* 'I growl'. O.H.G. *muo-ma* 'mother's sister': Lith. *mo-mà* O.C.Sl. *ma-ma* 'mother'.

Russ. *pele-pel-ka* *pere-pel* (I § 251 Rem. 2 p. 224 f.) Lith. *pē-pal-a* (or *pē-pal-a*) Lat. *pāi-pal-a* Pruss. *pen-pal-o* 'quail': cp. Lat. *pul-pul-āre* *pul-p-āre* 'cry, shriek' (of birds)? O.C.Sl. *gla-gol-ŭ* 'noise, word' for **gol-gol-* (loc. cit.): Skr. *gar-gar-a-s* a musical instrument, Gr. *γαρ-γαρ-ί-ς* *θόρυβος* Hesych. (cod. *γαργαρής*). Lith. *kañ-kal-a-s* 'bell' *kañ-kl-ys* 'guitar' O.C.Sl. *kla-kol-ŭ* 'bell' for **kol-kol-* (loc. cit.): Skr. *kar-kar-i-ṣ* 'sound'. Serv. *vje-ver-ica* Mod.Slov. *vě-ver-ica* Lith. *vo-ver-ė* *vai-ver-is* Lett. *vā-īer-i-s* Pruss. *īe-war-e*: Mod.Pers. *var-var-uh* Mod.Cymr. *gwy-īer* 'squirrel'. Mod.Slov. Mod.Bulg. *pa-prat* Pol. *pa-proc*

Russ. *pa-porot* and Lith. (borrowed?) *pa-párti-s* 'fern', cp. O.H.G. *var-n* 'fern'.

2. In other nouns from roots beginning in a consonant the form of the reduplication must be compared with that seen in verbal forms with Idg. *e*, such as Gr. *δέ-δορξ-α κέ-κλ-ετο*; and there is no doubt that in some cases there is a direct connexion between the verbal and nominal forms.

Skr. *ba-bhr-ú-ṣ* adj. 'brown', (when used as a subst. it means a large kind of ichneumon) Avest. *ba-wr-i-ṣ* 'beaver', O.H.G. *bibar* (cp. *filu* 'much' ground-form **pelu*) Lith. *bēbru-s* O.C.Sl. *bebrŭ* 'beaver', Idg. **bhe-bhr-u-*; Gall. *Bibrax* and Lat. *fiber* belong to 3 (infr.), so also perhaps Corn. *befer* 'beaver' (which however may very possibly be a word borrowed from A.S.). Skr. *ca-kr-á-m* 'circle, wheel' Avest. *ca-xr-e-m* 'wheel', A.S. *hweo-wol hweól* 'wheel', Idg. **qe-ql-o-*, cp. also Gr. *κύ-κλ-ο-ς* vol. I § 427 p. 314 and the unreduplicated O.C.Sl. *kolo* (stem *koles-*) n. 'wheel'.

Skr. *va-ṣr-i-ṣ* 'covering' *va-ṣr-á-s* 'hiding oneself' Avest. *-vaōiri-* 'husk' (for **ua-ur-i-*, I § 160 p. 144), cp. the Skr. perfect stem *va-ṣr-* from *ṣar-* 'cover over'. Skr. *cá-kr-i-ṣ* 'effecting' *ca-kr-u-ṣ* 'accomplisher', cp. the perfect stem *ca-kr-*. Skr. *da-d-i-ṣ* 'giving' *dá-dh-i-ṣ* 'bestowing', cp. the present and perfect stems *da-d-*, *da-dh-*. With these compare Ved. *sa-sah-t-i-ṣ* 'victorious', with the perfect stem *sa-sah-*. Skr. *da-dhṛṣ-á-s* 'bold, courageous'. Avest. *zu-zar-an-* 'raging'.

Gr. *τέ-ταρ-ο-ς* 'tension of the limbs', from $\sqrt{\text{ten-}}$. *τέ-τρας* probably 'guineahen', beside *τε-τραῖω* 'cackle'. *κε-κρύφ-αλο-ς* and *κε-κρύφ-αλο-ς* 'net-headress, hood', beside *κέ-κρυφ-α*. *βέ-βη-λο-ς* 'accessible, profanus', beside *βέ-βη-κα*. *κε-κράγ-μός* 'cry', beside *κέ-κράγ-α*. *πε-ποιθῆσι-ς* 'trust' (late), beside *πέ-ποιθ-α*. *σέ-σφυ-ο-ς* *πανοῦργος* Hesych. *πέ-πλ-ο-ς* 'outside garment, cloak, covering, the peritonaeum', probably to be compared with *πέλλα* 'skin, leather' *πέλμα* 'sole of the foot or shoe'.

Lat. *me-mor*: cp. Gr. *μέρ-μυρ-ο-ς* 'noteworthy, horrible' and Skr. perf. *sa-smāra* (Osthoff, Paul-Br. Beitr. VIII 549 f.).

se-br-i-s, compare Skr. *bhur-á-ti* 'is unquiet, throbs'. *sēd-ēs* for **se-zd-*, √ *sed-*, cp. I § 314 Rem. p. 253.

O.H.G. *zittar-oh* A.S. *teter* 'pustular eruption', pr. Germ. **te-tr-u-*: Skr. *da-dr-u-* Lith. *de-der-vinė* 'pustular eruption', cp. Lat. *der-b-iōsu-s* etc. formed on the type of 1, p. 95.

Lith. *tē-tervina-s* 'heathcock' O.C.Sl. *te-trēvi* 'pheasant': Gr. *τε-τριξ* *té-trōx* *τε-τρώων* a kind of fowl, cp. also Skr. *tī-ttīri-ś* *tī-ttirá-s* 'partridge'. O.C.Sl. *pe-pelŭ* (beside *po-pelŭ*) 'ashes', cp. Czech. *plá-pol* 'flame'. Lith. *te-tà* O.C.Sl. *te-ta* 'aunt, nurse': Gr. *τί-τα* 'little father, dad', cp. Skr. *tā-tā-s*, a word used by parents in addressing children and *vice versa*, Lat. *ta-ta*, Lith. *tē-ti-s* 'little father'.

3. In another group of formations from stems beginning in a consonant, the reduplication resembles that of verbal forms with Idg. *i*, such as Gr. *ἦ-στη-μι*, and there is no doubt that sometimes they stand in direct connexion with them. On the whole, however, such forms are rare.

We have no doubt a genuine Indo-Germanic example in Skr. *śi-śir-a-s* 'cold, frost; cold (adj.)' (ground-form **ki-kŕl-o-*), with which Bugge (Arkiv for nord. filol. II 355) connects O.Icel. *hēla* f. 'rime' for pr. Germ. **χt-χl-ōn*, and possibly another in Skr. *śi-śu-ś* 'young creature, child' if it is identical with Gr. *κῆ-κν-ς* 'strength' (compared with Skr. *śva* 'to swell out', Gr. *κνέω*)?

Skr. *ci-ki-* 'comprehending, aware', cp. pres. *cikēti*. *śi-śay-á-s* 'driving onwards'. *śi-śnátha-s* 'grasp'. *ci-kur-a-s* 'hair of the head', beside Lat. *cirru-s*?

Gr. *τε-θῆνῃ* *τί-τθῃ* 'nurse' *τί-τθο-ς* 'mother's breast', beside *θη-λή* 'mother's breast'. *βί-βασις* a kind of dance (late), beside *βι-βάζω*. *ἱ-στό-ς* 'weaver's beam, mast', beside *ἦ-στη-μι*. *ἱ-αχή* 'cry' beside *ἱ-άχω* for **fi-faxō*. *δι-δαχή* 'instruction' beside *δι-δάσκω* (for the *χ* cp. *δε-δίδαχα*). *γί-γαρ-το-ν* 'grape-stone', beside Lat. *grā-nu-m*.

Remark. In *τε-θύμαλον* 'wolf's-milk' (a plant), *Τι-τυο-ς* a giant (cp. Skr. *tu-tu-má-s* 'strong') and the like, it is possible that *ti* has come from *ti*, as in *τι-τυ-ρό-ς*, see I § 48 p. 41.

Lat. *qui-squil-iae*, beside Gr. *χο-σουλ-μάτια* 'shreds of leather'. *ci-cer*, compare no doubt Skr. *kar-kar-a-s* Gr. *κάρο-χαρο-ος* (Hesych.) 'hard'. *ci-cōnia*, Praenest. *cōnia*. *ci-cind-ēla*, beside *candēō*.

O.H.G. *fi-faltra* (*fī-faltra*? cp. Mid.H.G. *vī-valter*) A.S. *fi-foldara* O.Icel. *fi-frildi* 'butterfly'. O.H.G. *wi-wint* 'whirlwind', beside a present **wi-wū-mi*? O.H.G. *wiumman* 'to swarm' for **wi-wimman* (Kögel, Literaturbl. f. germ. und rom. Phil. 1887 n. 3).

4. Even nouns derived from roots beginning in a sonant stand side by side with parallel reduplicated forms in the verb.

Skr. *ul-ul-i-ṣ* 'ululabilis' or 'ululatus', Gr. *ὤλ-ολ-v-ς* 'howler, womanish man' *ὤλ-ολ-γγή* 'shriek, cry of mourning', Lat. *ul-ul-a* 'little screechowl'; cp. also Skr. *ar-ar-ē* used as a sudden call, Gr. Dor. *ἀλ-αλ-ᾶ* 'battle-cry', Mod.Bulg. *ol-el-e*, an exclamation of sorrow. Skr. Ved. *viy-an-aś-i-ṣ* 'piercing', Gr. *ποδ-ην-εχ-ής* 'reaching down to the feet', beside Skr. perf. *an-aś-a* Gr. *ἐν-εχ-εῖν*; Gr. *-εχ-* in words like *ποδ-εν-εχ-ής* no doubt stands in place of the regular form *-αχ-* = *-ἡκ-* through the influence of the syllable *-εγν-*.

Skr. *ar-ar-t-i-ṣ* *ar-ar-ā-s* 'leaf of a folding-door', no doubt from *√ar-* 'to arrive at anything, fit oneself in' Gr. *ἀρ-ᾶρ-ισσε* 'he fitted on'. *aś-iś-iṣu-ṣ* 'hungry' beside the desiderative *aś-iś-iṣati* 'he wishes to eat'.

Gr. *ἄκ-ακ-ιά* 'acacia' *ἄκ-ωκ-ή* 'point, edge', beside *ἄκ-αρο-ς* 'thorn' part. *ἄκ-αχ-μέρο-ς* 'pointed'. *ἀλ-άλαγξ* 'ἡ πλάνη' Hesych., beside *ἀλ-άομαι* 'roam about'. *ἀγ-αγύρετην* *ἀγύρετην* Hesych., cp. *παρ-ῆγυρι-ς* 'general assembly'. *ἀγ-ωγ-ό-ς* 'leader' *ἀγ-ωγ-ή* 'guidance', beside aor. *ἀγ-αγ-ειν*. *ἐδ-ηδ-ών* *μαγέδαινα* Hesych., *ἐδ-ωδ-ί* 'food', beside perf. *ἐδ-ήδ-οχα* *part. *ἐδ-ηδ-ώς*. *ὀπ-ωπ-ή* 'sight' *παρθενο-οπ-τή-η-ς* 'ogling the maidens', beside perf. *ὀπ-ωπ-α*. *ὀκ-ωχ-ή* 'support' like the Homer. part. *συν-οκ-ωχ-όρε* is a late formation, since the root was *sejh-*.

Lat. *up-up-a* 'hoopoe': Gr. *ἀπ-αφ-ό-ς* and *ἐπ-οιπ*. The vocalism of these words seems to have been influenced by analogy:

ἀναγιός was no doubt popularly connected with animal names in *-αγιός* (§ 78), *ἐνωψ* with adjectives in *-οψ* like *αἰθ-οψ*.

§ 53. Class II. This class is scantily represented; and although it is probable *a priori* that such forms should have come into use in the same period of the proethnic language in which stem-compounds like Skr. *dvī-pād-* Gr. *δι-ποδ-* had arisen (§ 10. 11. p. 22 ff.), yet all extant examples seem to have come from compounds consisting of repeated case-forms (Class III), which were afterwards re-modelled. This latter would be the same process as we assumed for coordinating stem-compounds such as Skr. *parjanya-vāta* (§ 49 p. 90), which these reduplicated forms approach very closely in usage as well as in form.

Skr. *uttarōttara-s* for **utara-utara-s* 'always increasing' *uttarōttara-m* adv. 'ever higher and higher' *sukha-sukhēna* instr. 'very gladly' (Pāṇini). *pūrva-pūrva-s* 'he who from time to time is first, precedes', superl. *pūrvapūrvatama-s*, instead of which in the Veda we have *pūrva-s-pūrva-s*. *ekaika-s* 'one at a time' for **aika-aika-s*, comp. *ekaikatara-s*, instead of which in Vedic we have *ēka-ēka-s* = **ēkō-ēka-s*, pr. Ar. **aika-s-aika-s* (I § 556 p. 411 f., § 647 p. 491).

Armen. *mec-a-mec* 'very great' *çar-a-çar* 'very bad', with the same *-a-* as e. g. *dr-a-kiç* § 28 p. 45, which would not prevent our assuming that the first part was originally a case-form; see p. 46, under Class IV.

Gr. (late) *αὐτ-αυτο-* with the meaning of *αὐτότατος* and of Lat. *ipsimus* *ipsissimus*, cp. O.H.G. *selb-selbo* § 54.

A Keltic form which should no doubt be mentioned here is O.Ir. *al-aile* 'alius', from which *ar-aile* arose by disimilation; also Cymr. *ar-all* (Zeuss² 359. 402); further the form *alaaili* with *indula n-ai* in Zeuss, p. 360.

§ 54. Class III. It may be assumed that this type dates from the proethnic period of Indo-Germanic. It is however difficult to say how far the words of this class in the separate Indo-Germanic languages were merely analogical formations modelled upon older forms already existing, and how far they

arose from an actual repetition in which the repeated word was still independent (e. g. *poor poor child*). In all languages and at all periods such doubled forms might very naturally arise. Moreover it must be once more observed that the boundary line between a phrase consisting of a word used twice in succession (as Lat. *mē mē*, Vergil Aen. IX 427) and a new single word (*mēmē*, *tētē*, *sēsē*) cannot be regarded as constant.

Skr. *tvā-tvam* 'thou', a strengthening of *tvām*, Lat. *mē-mē* *tē-tē* *sā-sē*, Mid.Cymr. *mi-vi* for **mi-mi*, a strengthening of *mi* 'I', *ti-di* for **ti-ti*, a strengthening of *ti* 'thou', *nī-nī* a strengthening of *nī* 'we'. Skr. *yād-yad* 'whatsoever', *yāthā-yathā* 'howsoever', like Lat. *quid-quid* *quā-quā* *quantus-quantus*. Cp. also Skr. *prā-pra* and Gr. *πρό-πρό* (Hom. *προνον-κελίνδουα*) 'on and on, ever forwards'¹).

In Sanskrit we frequently meet with doubled forms like *āhar-āhar* 'day by day', *padā-padā* 'step by step, at every step', *damē-damē* 'in every house', *prigū-s-priya-s* 'very dear'.

Gr. *nāu-nav* 'entirely': cp. Skr. *śāśvacchaśvat* 'on and on, ever anew' for **śāśvat-śāśvat* (I § 352 p. 274); *śā-śvant* = Gr. *ā-navt*- see I 166 p. 147, § 384 p. 289.

In Latin we find only the pronominal forms; such as *mē-mē*, *quis-quis* and the adv. *jam-jam*. *ips-ipsus* (for **ips(e) ipse*) is uncertain (Wölfflin, Gemin. p. 472). In later times were developed such forms as Fr. *bon-bon* 'sweetmeat' *jou-jou* 'toy'; Ital. *tututto* 'entirely' stands for **tuto-tuto* (*tutto tutto*) through syllabic dissimilation (I § 643 p. 481 ff.).

Mod.Ir. *mōr-mhōr* 'great, chief, principal'. Mod.Cymr. *me-y-vy* 'more and more' *gwel-wel* 'better and better'.

O.H.G. *selb-selbo* 'idem ipse'. Mod.H.G. dial. *āl-all* 'complete, at an end' *wē-wē* (Rhine-Fr., i. e. *weh-weh*) n. 'small wound'.

1) The comparison of Skr. *sā-sam* 'together' with Mod.Bulg. *sā-s* Russ. *so-s* 'with' is certainly not warranted. I regard the latter as a contaminated formation, occasioned by the phonetic changes of pr. Slav. *su*, which in certain positions became *s*. Similarly we have Mod.Bulg. *vā-r* 'in'. See the Author, Morph. Unters. III 71.

Cp. also O.H.G. *sō-so*, a strengthening of *sō* 'so' (possibly instr. of **suō-*).

Lith. *ji-ji jō-jo* from *ji* 'eum' *jō* 'eius', and the like.

NOUNS CONTAINING FORMATIVE SUFFIXES.

GENERAL REMARKS.

§ 55. We have already remarked (I p. 16 ff., II p. 3 ff.) that no sharp line of distinction can be drawn between what is

1) Besides Bopp's *Vergleich. Gramm.* III., Schleicher's *Compendium*, and the grammars of single languages by Whitney (*Skr. Gram.*) Spiegel (*O.Bactr. Gram.* and *O.Pers. cuneiform Insor.*), Justi (*Hdb. der Zendspr.*) Leo Meyer (*Vergl. Gramm. der gr. und lat. Spr.* II), Kühner (*Ausf. Gramm. d. gr. Spr.* I und *Ausf. Gramm. d. lat. Spr.* I), Pezzi (*La lingua greca antica*), Zeuss (*Gram. Celt.*), Grimm (*D. Gram.* II. III), Schleicher (*Lit. Gram.*), Kurschat (*Gram. d. lit. Spr.*), and Miklosich (*Vergl. Gram.* II), the reader is here referred to the following works:

G. Meyer, *Zur Geschichte der indogerm. Stammbildung und Declination*, Leipz. 1875. K. Brugmann, *Zur Geschichte der Nominalsuffixe -as-, -jas- und -vas-*, Kuhn's *Zeitschr.* XXIV 1 ff. F. Wehrlich, *De gradibus comparationis linguarum Sanscritae Graecae Latinae Gothicae*, Giss. 1869. H. Collitz, *Die Flexion der Nomina mit dreifacher Stammabstufung im Altind. und im Griech.*, Bezzenberger's *Beitr.* X 1 ff. G. Meyer, *Beitr. zur Stammbildungslehre des Griech. und Lat.*, Curtius' *Stud.* V. H. Ebel, *Starke und schwache Formen griechischer und lateinischer Nomina*, Kuhn's *Ztschr.* I 289 ff. E. Förstemann, *De comparativis et superlativis l. Graecae et Latinae*, Nordh. 1844. Th. J. Gonnet, *Degrés de signification en grec et en latin d'après les principes de la grammaire comparée*, Paris 1876. L. Schwabe, *De diminutivis Graecis et Latinis*, Giss. 1859. A. Leskien, *Die Declination im Slavisch-Litauischen und Germanischen*, Leipz. 1876. — B. Lindner, *Altind. Nominalbildung*, Jena 1878. Chr. Bartholomae, *Zur arischen Flexion der Stämme auf -r-, -n-, -m-, -j-, -v-*, *Arische Forschungen* I 25 ff. — G. Curtius, *De nominum Graecorum formatione linguarum cognatarum ratione habita*, Berol. 1842. Chr. A. Lobeck, *Paralipomena grammaticae Graecae*, 2. vols. Lips. 1837, *Pathologiae sermonis Graeci prolegomena*, Lips. 1843. F. Stolz, *Beiträge zur Declination der griech. Nomina*, Innsbr. 1880. Kretschmar, *Bildung der Comparationsformen der griech. Sprache*, Bromberg 1842. K. W. Göttling, *De gradibus comparationis Gr. linguae*, Jena 1852. J. La Roche, *Die Comparison in der griech. Sprache*, Linz 1884. Janson, *De Graeci sermonis nominum diminutione et amplificatione*, Leipzig 1869. — H. Düntzer, *Die Lehre von der latein. Wortbildung und Composition*, Köln 1836. C. Pauker, *Materialien zur latein. Wörterbildungsgeschichte* (adjectives in *-orius*, *-bilis*, *-osus*, *-icius*, *-ivus*) in 'Vor-

called the root-portion of a word and the formative suffixes. Some of the elements which are treated here as formative suffixes may have originally been the last sound or sounds of a root, that is, of a word which does not owe its existence to composition; and this may be true of the whole group of sounds of which the suffix consists, or it may be only its initial part which belonged to the root. I must exclude all conjecture as to which of the particular Indo-Germanic suffixes had this origin.

In the following pages only those suffixes are discussed which had already become suffixes in the strict sense at the time when the separate Indo-Germanic languages began to be developed.

§ 56. Many formative suffixes whose meaning is simple can be resolved into distinct elements; e. g. *-tro-* into *-tr-* + *-o-*, cp. Skr. *arī-tra-* m. n. 'oar' beside *arī-tar-* *arī-tr-* m. 'oarsman' (§ 62), *-isto-* into *-is-* + *-to-*, cp. Skr. *nāv-iṣṭha-* 'novissimus' beside *nāv-gas-* 'novior' (§ 81).

Generally speaking we find that compound suffixes of this sort in the later periods of the history of language are due to either one or other of three causes.

arbeiten zur latein. Sprachgeschichte', Berlin 1884. G. Müller, De linguae Lat. deminutivis, Lips. 1865. Kessler, Die lat. Deminutiva, Hildburgh. 1869. W. Corssen, Über die Steigerungs- und Vergleichungsendungen im Lateinischen und in den italischen Dialekten, Kuhn's Ztschr. III 241 ff. — Wh. Stokes, Bemerkungen über die irischen Deklinationen, Kuhn-Schleicher's Beitr. I 333 ff. 448 ff. Id., Celtic Declension, Transactions of the Philological Society for 1885, and in Bezzenberger's Beitr. XI 64 ff. — Th. Jacobi, Untersuchungen über die Bildung der Nomina in den german. Sprachen, Breslau 1847. F. Kluge, Nominale Stammbildungslehre der altgerman. Dialekte, Halle 1886. G. Burghauser, German. Nominalflexion, Vienna 1888. K. von Bahder, Die Verbalabstracta in den german. Sprachen, Halle 1880. L. Sütterlin, Geschichte der nomina agentis im German., Strassb. 1887. H. Falk, Die Nomina agentis der altnordischen Sprache, Paul-Braune's Beitr. XIV 1 ff. — A. Leskien, Spuren der stammabstufenden Declination im Slavischen und Litauischen, Archiv f. slav. Philol. III 108 ff. C. Pauli, Preussische Formlehre, Kuhn-Schleicher's Beitr. VII 155 ff.

Works which treat of a single suffix will be cited below in the sections devoted to the separate suffixes.

See also the lists of authorities on the history of case-formation.

First, a word or a group of words may have been transferred from one declension to another. The formative suffix is then amplified at the extremity nearest the ending of the word. This enlargement of the stem was usually brought about by the coincidence of two declensions in one or more forms; these similarities gave rise to new analogical formations. Thus e. g. the origin of the Avestic participial suffix *-ant-a-* (nom. sing. *barantō*, gen. *barantahe*) was that the accusative termination *-em* (*barant-em*: cp. Gr. *γέροντ-α*) was placed on a level with that of *aspe-m* (stem *aspa-*) and similar forms; the origin of the Gothic suffix for names of kindred, *-tr-u-* (nom. pl. *brōþrjus*), was that the dative termination *-trum* (*brōþru-m*: cp. Skr. instr. *bhrātṛ-bhiṣ*) was placed on a level with that of *sunu-m* (stem *sunu-*). In this way nouns which at first had no formative suffix often came to possess one; as e. g. Goth. *fōt-u-* was due to such case-forms as the acc. sing. *fōt-u* = **pōd-m* (see § 159).

Secondly: a suffix sometimes coalesces so completely with a part of some word to which it is added that the point of junction can no longer be perceived, and accordingly when it is used afterwards, the suffix appears in new words with part of this preceding word attached, as though it were a single element in the formation. Thus in High German the suffix *-(i)nārja-* (e. g. O.H.G. *sculd-ināri* 'debtor'), which is found parallel to *-arja-* (e. g. O.H.G. *mād-ari* Mid.H.G. *mādare* 'mower, reaper') and has the same meaning, came from words like *gartin-ari* 'gardener' (*garto* gen. *gartin* 'garden') *weidin-ari* 'hunter' (*weidinōn* 'to hunt'), and in Greek the feminine formative suffix *-ava* in *λέκ-ava* *χάπρ-ava* and so forth, came from words like *γείτανα* i. e. **γείταν-ια* (from *γείτον*), *λέινα* i. e. **λεΐαν-ια* (from *λέων*); see § 110.

Thirdly: two elements used in forming derivatives, which are nearly allied in meaning, are combined into one ('contaminated'). An accumulation of suffixes like this often arises simply from the attempt to give fuller or more distinct expression to the characteristic meaning (such as that of comparison, or a diminutival

sense and so forth). Thus we have comparatives and superlatives like Skr. *jyēṣṭha-tama-s* from *jyēṣṭha-s*, Gr. ἀμεινότερος ἐλαχιστότατος, compared with ἀμεινότερος ἐλάχιστος, Lat. *superior extremissimus* from *superus extremus*, O.H.G. *hinter-ōro* from *hintero*, Goth. *hindum-ista* from **hinduma*, the H.G. diminutive-suffix *-l-tna-* in *kitz-lein kind-lein* and the like (O.H.G. *chizz-ila* and *chizz-in*), the (rare) Skr. abstract-suffix *-tvā-tā* as in *puruṣa-tvā-tā* 'mortality, the manner of men' (parallel forms are *puruṣa-tva-* and *puruṣā-tā*), the Lat. *-n-eo-* in adjectives of material, such as *aeneus pōpulneus* (beside these we have *aeneus pōpulus* and *aereus pōpuleus*) with other examples.

It may be assumed without hesitation that the second and third processes gave rise to compound suffixes even in the Indo-Germanic period. In the second class should be placed e. g. *-nī-* beside *-ī-* in **pot-nī-* 'lady' (Skr. *pṛtī* Gr. *πῆρις*), which came from such forms as **tekṣn-ī-* (Skr. *takṣnī* Gr. *τέκτων*), the fem. of **tekṣon-* 'carpenter' (Skr. *takṣan-* Gr. *τέκτων*); see § 110. To the third class belong the superlative-suffix *-t-ymo-* (§ 73), the abstract-suffix *-ta-ti-* (§ 102), and others of the same sort.

§ 57. The original meaning of a suffix used in forming nouns can only be decided in instances where it became a suffix in the course of the development of the separate languages e. g. in the case of Mod.H.G. *-lich*, Fr. *-ment*. In the case of the proethnic suffixes, their etymological origin, and therefore their original meaning is altogether obscure. In order to keep within safe limits, we shall confine ourselves to determining where and how these suffixes were employed at the period when the parent language split up into its different branches; beyond this we cannot go with any hope of certainty.

If a suffix becomes fertile (see § 5), the direction in which its meaning develops is often decided not by the idea which it properly and originally contained, but by the meaning of the complete word or group of words on the analogy of which the new words are formed. Special stress must be laid

on this point because it is seldom sufficiently recognised in attempts to establish the original meaning of the proethnic suffixes, and because it helps to show the great difficulty of such an undertaking.

In Latin, for example, *juven-ta* 'time of youth' (Goth. *junda*, common ground-form **junny-tā*) suggested *senec-ta* 'time of old age', and *septentrion-ālis* 'northern' gave rise to *meridionalis* 'southern'; in A.S. *æf-en* 'evening' was formed in imitation of *morg-en*, while on the other hand in Mod.H.G. we find a dialectic form *morg-end* like *abend*; in O.H.G. *hief-altra* 'hip-tree, wild dog-rose' (from *hiufo*), *mazz-altra* 'maple tree' were formed in imitation of *affal-tra* *aphol-tra* 'apple-tree'; and in Greek *κάρο-αινα* (fem. of *κάρο-ς* 'boar'), *λύκ-αινα* (fem. of *λύκ-ος* 'wolf') in imitation of *λέαινα* 'lioness' (for **λεFαν-τα*). Here then we have examples of suffixes denoting time of life (Lat. *-ta-*), the points of the compass (Lat. *-iōnāli-*), time of day (A.S. *-en*) and so forth in course of developement. The specialising process has gone further in the case of e. g. *-uo-* (§ 64) in Latin and Germanic as a suffix for forming names of colours, Lat. *helvo-s*, *gilvo-s*, *fulvo-s*, *furvo-s*, *flavo-s* (?), O.H.G. *gelo* 'yellow', *salo* 'black, dirty', *falo* 'fallow, pale', A.S. *baso* 'purple', O.Icel. *hǫss* 'gray', O.H.G. *grāo* 'gray' and others (Kluge, Nom. Stammb. 81), which perhaps arose simply from the two forms **ghel-uo-* (Lat. *helvo-s* O.H.G. *gelo*) and **pol-uo-* O.H.G. *falo* O.C.Sl. *plavŭ*). Cp. further the Greek *-ayo-* used as a suffix for names of animals, § 78. In all these instances the special meaning of the suffix is imported into it, and not a natural outgrowth of its original meaning; in the same way it is certainly due to a secondary analogical developement that *-en-* so often recurs in words denoting parts of the body which can be traced back to the parent language, as in the words for head (Skr. *śīrṣ-ān-*, Gr. *ἀμφι-κεphalos* 'two headed', O.Icel. *hjarse*), for eye (Skr. *akṣ-ān-* Goth. *āug-an-*, cp. I § 444 Rem. 3 p. 331), for ear (Goth. *āus-an-*, Gr. *οὐατ-* for **οὐα-ατ-* **ous-η-t-* and so forth; see § 114.

In the same way many functions of the proethnic suffixes

are no doubt derived (even where it cannot be distinctly proved) from analogical extensions of their use, with which the meaning originally inherent in the suffix had nothing whatever to do.

Remark. Thus I think it probable that the use of the suffix *-ā-* to denote female sex (e. g. Idg. **ekwā-* 'mare': Skr. *āśvā-* Lat. *equa* Lith. *asėdā*) did not spring from the original meaning of the suffix, but that some one or some few words in *ā*, perhaps **gwā-* **gynā-* **genā* 'woman' (Skr. *gnā-* etc., see I § 428 p. 315 f. § 437 p. 325) and **māmā* 'mother' (Lat. *mamma* O.H.G. *muoma* Lith. *momā* etc.) — in which the feminine gender was sufficiently implied by the root-part of the word, just as much as in **māter-* 'mother' (Skr. *mātā* etc.) — gave the suffix its special function, the expression of female sex; and that these forms were then followed by new formations like **ekwā-* beside **ekyo-*. Many things whose names contain an *ā*-suffix assumed in the popular consciousness the shape of female beings though they have nothing to do with animal sex, e. g. Gr. *σελήνη* 'moon'. In these words we shall generally find that the gender to begin with was purely 'grammatical', and that the *ā*-suffix by which the word was associated with words like **ekwā-*, was the real cause of the fancy which represented the imaginary personality as a woman and not as a man: conversely, for example, the Greeks imagined *ἄνθρωπος* as a male being, solely because of connexion of the word in form with male names in *-ος*, such as *θεός*. The notion that primitive man was endowed with so marvellous a wealth of fancy as to regard the great majority of things devoid of life and things immaterial as persons, nay more as persons belonging to one of two distinct sexes, and that the whole system of gender in nouns sprang from this source, is a one which by this time should surely have been abandoned. Cp. the Author, 'Das Nominalgeschlecht in den indogerman. Sprachen', Teichner's Internation. Ztschr. f. allg. Sprachwiss. IV. p. 100 ff.

§ 58. Following the example of the Sanskrit grammarians, scholars divide the suffixes used in noun-formation into Primary and Secondary. The former are employed in deriving words from roots or verbal stems, the latter in derivatives formed from noun-stems. Thus e. g. *-tor-* is a primary suffix in nom. pl. Skr. *dā-tār-as* Gr. *δοῖ-τορ-ες* Lat. *dā-tōr-ēs* 'givers', Skr. *jani-tār-as* Gr. *γενέ-τορ-ες* Lat. *geni-tōr-ēs* 'begetters', Skr. *bōdhayi-tār-as* 'awakers' Gr. *ηγῆ-τορ-ες* 'leaders' Lat. *arā-tōr-ēs* 'ploughers', but *-ī-* is a secondary suffix in Skr. *vṛk-ī* Mid.H.G. *wölpe* 'she-wolf' (beside Skr. *vṛka-s* Mid.H.G. *wolf* 'wolf') and in Skr. *vidūṣ-ī* Gr. *ιδῶα* f. 'knowing' (beside the masc. Skr. *vidvān* Gr. *ιδώς* perf.

part. from $\sqrt{\text{ueid-}}$ 'see, know'). Occasionally secondary suffixes are added even to inflected case-forms, e. g. *-tero-* in Skr. *uccāis-tara-* and so forth; see § 13 p. 29 above.

In an historical account of the developement of the Indo-Germanic languages, this difference furnishes us with no useful basis of classification. In the first place, it is to say the least very questionable whether every suffix was originally restricted to one of these two functions. In any case the distinction hardly applies at all, even in the earliest times, to many of the most widely used suffixes, e. g. *-io-* *-ijo-*; cp. Skr. *yaj-ya-s* 'venerandus' Gr. *ἄγ-ιο-s* 'holy', and Skr. *pitr-īya-s* Gr. *πάτρ-ιο-s* Lat. *patr-iu-s* 'fatherly, father's'. Again, we often find that suffixes which were at first restricted to the primary or the secondary use change their function in the course of their history (for other instances besides those which will be discussed below see Whitney, Skr. Gramm. § 1139 and Osthoff, Verb. in der Nominalcomposition p. 116 ff.); and this change sometimes seems to have taken place even before the separation of the languages. One example of this is *-ies-* *-īes-* *-is-*, the suffix of the comparative (§ 135), which, originally primary, seems to have become secondary even in protoethnic Indo-Germanic, the comparatives formed by its means being regarded as derived from the corresponding 'positive' forms (cp. Skr. *svād-īyan* Gr. *σῶδ-ίωρ* beside *svād-ū-ḥ* *ῥῶδ-ύ-s*). In later formations however found only in the separate languages, such as *brāhm-īyan* from *brah-mán-*, Lat. *amīc-ior* from *amīcus*, *-ies-* is undoubtedly a secondary suffix.

1. Suffixes in *-o* and *-a*.

§ 59. The *o*-suffixes uniformly show the ablaut *o*: *e* (*e*-series, I § 311—314)¹⁾. *o* e. g. in the nom. acc. sing., *-o-s*,

1) As we are accustomed to cite the suffixes whose vocalism assumes the various forms of the *e*-series in their *e*-form (*-es-* *-ter-* etc.), we ought consistently to speak of the suffixes *-e-* *-ie-* *-ye-* instead of *-o-* *-io-* *-yo-* and so forth; but as this point is in itself of little importance, I am unwilling to depart from the usual nomenclature. It will be enough to have drawn attention to the inconsistency.

-o-m. *e* in the voc. sing. *-e*, gen. *-e-siō*, instr. *-ē*, loc. *-e-ī*; the last three cases also have *o*: *-o-siō*, *-ō*, *-o-ī*. Parallel to these must further be assumed an 'unaccented weak-grade form', where the suffix disappears altogether, if we suppose that a case-suffix *-ad* is contained in the pr. Balt-Slav. gen. (abl.) **uīlgad* 'of a wolf' (Lith. *vilko* O.C.Sl. *vluka*), and a case-suffix *-ā* in the nom. acc. pl. neut. **juga* (Ved. *yugā*) (see I § 113 Rem. p. 107, p. 108 footnote), if secondary formations like **eky-iō* 'equinus' from **ekyo-* 'equus' lost the final of the stem by some regular phonetic change (see § 63 Rem. 3), and the *-i-* of the Lat. *Cornēl-i-s* Lith. *mēd-i-s* etc. was the weak-grade form of *-ie-iō-* (see the beginning of § 63). It is hardly possible from the data at our command to trace the connexion between these phases of vowel gradation and the variation of the accent. But there is nothing to prevent our assuming that *e* stood originally in the syllable which bore the principal accent, and *o* in the syllable which followed it, whilst the case-suffixes *-ad* and *-ā* themselves took the principal accent (cp. I § 311 p. 248 f.). These phonetic relations were afterwards obscured by many different kinds of analogical developement.

The *ā*-suffixes show the ablaut *a:a* (*a*-series, I § 318): *a* e. g. in the nom. acc. sing., *-ā*, *-ā-m*; *a* in the voc. sing. *-a*, nom. acc. du. *-a-ī*, cp. also instr. sing. Skr. *-aya* O.C.Sl. *-o-jā*. By the side of these the 'unaccented weak-grade form' perhaps occurs in such words as Gr. *τίμ-ης* from *τίμη* pr. Gr. and Dor. *τῆ-μᾶ* (see § 63 Rem. 3). Here also the recorded accentuation shows no variation from which we can reconstruct the original connexion between Ablaut and Accent.

In protoethnic Indo-Germanic the *o*-stems were all masculine or neuter, the *a*-stems all feminine. And the process of differentiation (technically called *Motion*) of Masculine stems to express the variation of gender in substantives and adjectives had come into regular use for *o*-stems in the same period; e. g. **ekyo-s* 'horse' fem. **ekyā* 'mare' (Skr. *āśva-s āśvā* Lat. *equo-s equa*), masc. **rudhro-s* fem. **rudhrā* neut. **rudhro-m* 'red' (Skr.

rudhira-s -irā -irā-m (Gr. ἑρυθρός -ρά -ρόν, Lat. *ruber rubra rubrum* O.C.Sl. *rūdri rūdri rūdri*¹⁾).

But the original differences in gender did not always remain unchanged in the separate languages. A number of *o*-stems became feminine in Greek and Italic, that is, they were constructed with feminine forms in attributive or predicative combinations, as Gr. ἡ γηγώς, ὁδοδάκτυλος ἡώς, Lat. *haec fagus*, a change of usage which was introduced in different ways (see A. R. Lange, *De Substantivis femininis Graecis secundae declinationis*, Lips. 1885). On the other hand, in the classical languages and in Slavonic² *a*-stems became masculine, words of abstract meaning formed with *a* being used to denote male persons; as Gr. νεανία 'young man' orig. 'youth', ἑτη 'kinsman' orig. 'kinship', Lat. *agri-cola* 'husbandman' orig. 'husbandry', O.C.Sl. *junota* 'young man' orig. 'youth'. In Lithuanian, neuter substantival stems in -o assumed in the nom. and acc. the masc. form, e. g. nom. sing. *ár-kla-s* 'plough' beside Gr. ἀρο-τρον, and so forth.

The *o*- and *a*-stems form by far the largest of the Indo-Germanic declensions. Nowhere have these classes suffered any serious loss except in Armenian and in Germanic. In Armenian it would seem that the *a*-declension wholly died out, and in Germanic many *o*- and *a*-stems passed into the *n*-declension (§ 112 ff.).

§ 60. The Suffix -o- -a-³⁾.

From the earliest period, the suffixes -o- and -a- were used for many different purposes. Besides their use to denote physical sex we may notice in particular the following functions:

1. -o- is found in certain abstract root-nouns (*nomina actionis*)

1) See § 57 Rem. p. 106, and the Author's Essay on Gender cited there.

2) Ed. Wolter, *Razyskanija po voprosu o grammatičeskom rodje*, Petersburg 1882 (see the notice of it by H. Haupt, Berlin. philolog. Wochenschr. 1885 p. 312 ff.)

3) H. Zimmer, *Die Nominalsuffixe a und o in den german. Sprachen*, Strassburg 1876. F. Miklosich, *Das Suffix a im Altslovenischen*, Kuhn-Schleicher's Beitr. I 222 ff. 273 ff.

(the root-syllable usually bears the accent), e. g. **gōn-o-* 'a begetting, coming into being' Skr. *jāna-m* 'birth, origin' Gr. *γόνος* 'birth', also concrete 'offspring', Gr. *χρόμ-ος* 'noise, murmur, neighing' O.C.Sl. *grom-ŭ* 'thunder', Goth. *ga-fāh-s* m. 'capture' (ground-form **pāñko-s*) *dragk* n. 'drink'. 2. -o- is found in certain *nomina agentis* (the accent falls usually on the suffix), e. g. **lor-ó-* 'he who penetrates' Skr. *tará-s* Gr. *τορό-ς*, Lat. *procu-s* 'suitor' (beside *precāri*), Goth. *þiufs*, gen. *þiubis*, 'thief' (ground-form **teupó-s*). 3. -ā- is found in certain abstract root-nouns (*nomina actionis*), e. g. Gr. *φύ-η* Lat. *fug-a* 'flight', Gr. *βλήχ-η* 'bleating, cry' O.H.G. *chlag-a* 'lament', Skr. *bhid-ā* 'separation', Goth. *bid-a* 'request, prayer'.

Differentiation of Adjectives (*Motion*): e. g. masc. **néu-o-s* neut. **néu-o-m* fem. **néu-ā*: Skr. *náva-s náva-m návā*, Gr. *νέο-ς νέο-ν νέā*, Lat. *novo-s novo-m nova*, O.C.Sl. *novŭ novo nova*.

In most of the Indo-Germanic languages we find more or less frequently the transference of stems that do not end in *o* or *ā*, e. g. stems ending in explosives, into the *o-* or *ā-*declension, without any modification of meaning. The change in any particular case may be due to any one of a large number of causes; indeed, to any association either of sound or of sense. Analogy of form, for example, produced in Sanskrit a nom. *dánta-s* (cp. p. 111) beside acc. *dánt-am* (stem *dánt-* 'tooth'), and in Greek *τὴν κεφαλήν* (Callim.) beside nom. acc. neut. *κεφαλή* 'head' (for **καπαῶ-a*, a neuter subst. like *ἄλειψ-a*). On the other hand, the change was due to an association of meaning when in Latin *aurōr-a* ('dawn') and *Flōr-a* were substituted for **aurōs -ōris* (§ 133) and *flōs -ōris* (§ 134); so in O.H.G. pl. *tohter-ā* 'daughters' for the older form *tohter*, in Lith. *dukr-ā* 'daughter' for *duktė -ėrs*, and in Pruss. *soestr-o* O.C.Sl. *sestr-a* 'sister' beside Lith. *sesū -ėrs* (§ 122). Often both principles may have been at work together, e. g. when in Prākṛit *mādā* 'mother' and *duhidā* 'daughter' (Idg. -*tē(r)*) passed over to the *ā*-declension (cp. § 122 Rem. 1). The attraction to the *o-* or to the *ā*-declension often affects only single cases, e. g. Gr. dial. dat. pl.

πόδ-οις (like *λέκ-οις*) for *ποσί*, acc. pl. *πάντ-αυς* (like *πάνσα-υς*) for *πάντ-ας*, and there is perhaps an example of such a transference into the *o*-declension even in the proethnic language, where the genitive ending *-ōm*, which comes from *-o-om*, was used with other stems than those in *-o-*. With regard to all these processes we must remember that the speaker had no clear consciousness of the point of junction between stem and case-ending, least of all where vowel-contraction had taken place (vol. I p. 106 ff.).

Idg. Masc. **u̯q-o-s* 'wolf' (*√u̯elq-* 'tear'): Skr. *v̥ka-s* Armen. gen. sing. *gailo-y* (cp. I § 455 p. 336) Gr. *λέκ-οις* (Lat. *lupu-s*) Goth. dat. pl. *vulfa-m* Lith. *v̥lka-s* O.C.Sl. instr. sing. *elūko-m̃*. Neut. **jug-ō-m* 'yoke' (*√jeyg-* 'yoke, put to'): Skr. *juga-m* Gr. *ζυγό-ν* Lat. *jugu-m* Goth. dat. pl. *juka-m* O.C.Sl. instr. sing. *igo-m̃*. Fem. **gen-ā- *gyn-ā- *gn-ā-* 'woman' (*√gen-*): Skr. *gnā-* Gr. Att. *γενή* Boeot. *πανά* O.Ir. nom. *ben* gen. *mnā* Goth. *qinō* O.Icel. *kona* (in Germ. it has passed over to the *n*-declension) O.C.Sl. *žena*.

Aryan. Skr. *ghōṣ-ā-* m. 'sound, noise' Avest. *gaoṣ-ā-* m. 'ear' O.Pers. *gauš-ā-* m. 'ear', nom. sing. pr. Ar. **ghauš-ā-s*. Skr. *bhāg-ā-s* m. 'distributor, bestower of blessings' Avest. *bay-ā-* m. 'God': O.C.Sl. *hog-ā* 'God'. Skr. *nīd-ā-s* 'resting-place, couch, nest': Armen. *nist* 'position, seat, possession', Lat. *nīdu-s*, O.Ir. *net* O.H.G. *nest* 'nest', Idg. **ni-zd-ō-s* 'settling-place'. Skr. *mēh-ā-* n. 'urine' Avest. *gao-maez-ā-* n. 'cow's urine'. Skr. *pad-ā-* m. 'standing-place, place, position': Gr. *πέδ-ο-ν* 'ground, field', Lat. *Ped-u-m*, *oppid-u-m*. Skr. *jy-ā-* Avest. *jy-ā-* 'bowstring': Lith. *giy-ā* 'string, cord'. Skr. *janagh-ā-* 'upper part of the foot': cp. Lith. *pra-žang-ā* 'transgression' (*√ghenagh-*). Skr. *mud-ā-* 'joy'. Avest. *der'z-ā-* 'bundle, basket'.

Adjectives. Skr. *dīrgh-ā-s -ā-m -ā* Avest. *dar'γ-ō -e-m -a* O.Pers. *darg-ā -ā-m -ā* 'long': Gr. *διήχ-ός -ός-ν -ή*.

In Aryan, transference into the *o*-declension is common. In many cases no doubt this must have taken place in proethnic Aryan; cp. e. g. Skr. *mās-ā-* Avest. *māmh-ā-* with Skr. *mās-* 'month' (cp. § 134), Skr. *nār-ā-* Avest. *nar-ā-* with Skr. *nār-*

'man' (Gr. *ἀνθρωπος*), Skr. *pād-a-* Avest. *pād-a-* beside Skr. *pad-* 'foot'. In other cases however, it belongs to the development of the separate dialects: e. g. Skr. Ved. *pūṣān-a-s* from *pūṣān-*, name of a god, Prākr. part. nom. *carant-ō* gen. *carant-assa* etc. instead of Skr. *cārant-* 'going, moving' (and so often in the popular dialects); Avest. loc. sing. *vīs-ē* O.Pers. instr. pl. *vīp-aibiš* from *cīs- vīp-* 'village', Avest. gen. sing. *stār-ahē* from *star-* 'star', dat. sing. *airyaman-ai* from *airyaman-*, the personified spirit of prayer, part. nom. sing. *jaidyant-ō* etc. 'beseeching'. The point of contact from which this metaplastic process sprang was the phonetic similarity of the accusative endings *-am* = Gr. *-a* and *-a-m* = Gr. *-o-r-* (p. 110).

In Sanskrit there is a large group of denominative adjectives formed with *-o -a-*, with the meaning 'related to, or connected with' that which is denoted by the noun from which they are derived, especially with the meaning, 'sprung from'. The first syllable of the word usually has what is called the *vṛddhi* grade, that is the second or 'highest' form of the strong or 'high' grade. E. g. *mānas-ā-s* 'related to the mind (*mānas-*)', *savitṛ-ā-s* 'sprung from the sun (*savitṛ-*)', *sāindhav-ā-s* 'sprung from the Indus (*sindhu-ṣ-*)'. If the contained stem is itself an *o*-stem, the adjective is formed without modifying the suffix; e. g. *āmitrā-s* 'hostile' from *amitra-s* 'foe'. Similar derivatives are found, though more rarely, in Iranian; as O.Pers. *mārgav-a-* 'inhabitant of Margiana' from *mārgā-š* 'Margiana', Avest. *ar'zva* (or *arzava*) 'good works' from *er'zu-* 'just, right', *kavay-a-* 'kingly' from *kavi-š* 'king', *temarōh-a-* 'dark' (*-m-* for *-s-*, see I § 558 p. 414) from *temah-* 'darkness' (cp. Skr. *tāmas-a-* from *tāma-s*), *airyav-a-* 'offspring of Airyu'. Although the particular forms that furnished the type for this category of nouns in Aryan, and the origin of the *vṛddhi*-strengthening, which occurs also in other derivative nouns (cp. § 93), are still undiscovered, yet it is at least probable that the class took its rise in such *o*-stems as had undergone a modification of meaning similar to that which we find in the epithetised compounds (see § 50), and that *o-* was then added to other stems in imitation of these. The use of

the suffix was extended by the desire to render easier the Differentiation (or modification to express gender) of adjectives; and we find an unmistakable parallel in the treatment of the final members of compound words; compare *-lamas-a-* from *tāmas-* 'darkness', *-aśman-a-* from *āśman-* 'stone', *-bhruv-a-* from *bhrū-* 'eyebrow', and especially instances like *daśāṅgulā-m* 'length of ten fingers' from *aṅguli-ś* 'finger' (Whitney Skr. Gr. § 1315^b), which are on a level with formations like *nāiryā-* 'belonging to *nīryā-*'.

Remark 1. Cp. von Bradke, Über die *Vṛddhi* in der secundären Nominalbildung, Ztschr. der deutsch. morgenländ. Gesellsch. XI, 361 ff. — The suggestion that Lat. *ovo-m* 'egg' is related in the same way to *ovi-s*, and means 'that which proceeds from a bird', is unsatisfactory. Rather we may compare such instances as Gr. *ἐννέμεν* beside *ἐννεμο-ς*, *ἀμφιέμεστο-ς* beside *ἰαλίζω*. Doublets that had arisen with different grades of ablaut in the root-syllable were in Aryan adapted to convey two distinct meanings, while in Greek they subserved a particular principle of rhythm. In either case, our endeavour must be to discover the oldest forms which gave the type for the whole series.

Armenian. *orb*, gen. *orbo-y*, 'orphan': Lat. *orbu-s*, Gr. *ὀρφο-βότης* 'one who brings up orphans'. *gorc*, gen. *gorco-y*, 'work': Avest. *var-z-a* m. 'working, action', Gr. *ἔργον* O.H.G. *werc* n. 'work'. Adj. *hin*, gen. *hn-o-y*, 'old': Skr. *sán-a-s* Gr. *ἔν-ο-ς* O.Ir. *sen* Lith. *sēn-a-s* 'old'.

The *a*-declension, as we have already remarked in § 59 p. 109, was entirely lost.

Greek. *πηγ-ό-ς* 'oak': Lat. *fāg-u-s* 'beech'. *οἶκ-ο-ς* 'house': Lat. *vīc-u-s*. *πόρ-ο-ς* 'a penetrating, passing through, passage' *πορ-ό-ς* 'penetrating' (*ὁδοιπόρος* for **ὁδοι-πορ-ό-ς*, I § 676 p. 542 f.): Skr. *pār-a-* 'navigation, passage by sea' *pār-á-s* 'transporting'; *τόμ-ο-ς* 'cut, slice' *τομ-ό-ς* 'cutting, sharp'; *ἄγ-ό-ς* 'guide, leader': Skr. *aj-á-s* 'driver'. *ζυγ-ό-ν* 'yoke': Skr. *yug-á-m*. *πληγ-ή* 'blow': Lat. *plāg-a*. *ροή* Corcyr. *phofá* 'stream, flowing' from *ρέω*: Lith. *srav-à* 'a flowing, bleeding'. *σπουδ-ή* 'zeal, earnestness' from *σπεύδω*. *τροφ-ή* 'nourishment' from *τρέφω*.

Adject. *ώμ-ό-ς* *ώμ-ό-ν* *ώμ-ή* 'raw': Skr. *ām-á-s* *-á-m* *-ā* 'raw'.

Observe that *λαός* 'people' stands for *λα(φ)-ός* (*Λαφο-νόφων* is preserved by Priscian); see I § 611 p. 462.

The endings of *o*-cases are often transferred to other classes of stems; as *οὐν* in *ποδ-οῦν -οῦν*, *-εις* in *πόδ-εις* for *ποδί*, *-ον* in *πολίτ-ον*.

Italic. Lat. *popul-u-s* *popl-u-s*, Umbr. *popl-o-m* acc. 'populum'. Lat. *dol-u-s* Osc. *dolud* abl. 'dolo': Gr. *δόλ-ο-ς* 'wile'. Lat. *dom-u-s*: Gr. *δόμ-ο-ς* 'house'. Lat. *unc-u-s*: Skr. *an̥k-d-s* 'hook', Gr. *ὄγκ-ο-ς*, 'something bent or bowed out, hook, extended circumference'. Lat. *for-u-m*, Umbr. *furo* 'forum': Skr. *dvār-a-m* 'door, entrance, exit' (*d-* instead of *dh-*, see I § 480 p. 354), O.C.Sl. *dvor-ŭ* m. 'enclosure'. Osc. *ter-o-m* 'terra, territorium'. Lat. *porc-a*, fem. of *porc-us*, Umbr. *purk-a* *porc-a* 'porcas'. Lat. *lump-a* (*lymph-a*, cp. I p. 42 footnote), Osc. *Diump-a-is* 'Nymphis'. Lat. *deiv-a* *div-a* (fem. of *deiv-o-s*), Osc. *deiv-a-i* dat. 'divae'. Lat. *lir-a* 'furrow, ridge between two furrows': O.H.G. *wagan-leis-a* 'cart-track, road' O.C.Sl. *lěch-a* 'ridge of earth'.

Here should also be mentioned the Umbr.-Samn. infinitives in *-o-m*, as Umbr. *erom* Osc. *ezum* 'esse', Umbr. *a-ferum* *a-fero* 'circumferre', Osc. *deicum* 'dicere' *moltaum* 'multare' (cp. § 156).

Adject. Lat. *rōb-u-s -u-m -a*, Umbr. acc. pl. masc. *rof-u* 'rufos' fem. *rof-a* 'rufas': Goth. *ráuþ-s* *ráuþ* *ráud-a* 'red'.

Old Irish. Masc. *dia*, gen. *dē*, 'God' pr. Kelt. **deiv-o-s*: Skr. *dēv-á-s* Lat. *deiv-o-s* *deu-s* (I § 172 p. 152) Lith. *dēv-a-s* 'God', cp. Skr. *div-* Gr. *Δις-* 'heaven, god of heaven'. *orc* 'pig': Gr. *πόρκ-ο-ς* Lat. *porc-u-s* O.H.G. *farh* *farah* Lith. *pařsz-a-s* 'pig, sucking-pig'. O.Ir. *at-trab* n- Mid.Ir. *ait-treb* n- 'possession, dwelling' no doubt to be compared with Goth. *þaúrþ* 'field, land' O.H.G. *dorf* 'village'. Fem. *ben*, gen. *mn-ā*, 'wife': O.C.Sl. *žen-a* etc., see p. 111 above. *coss*, pl. *coss-a*, 'foot': Lat. *cox-a*, O.H.G. *hahs-a* 'hollow of the knee'. *ferg* *ferc*, gen. *ferge*, 'wrath': Gr. *ὄργ-ή* 'impulse, passion'.

Adject. *caech* m., *caech* n- n., *caech* f. 'blind': Lat. *caecu-s -u-m -a*, Goth. *háih-s* *háih* *háih-a* 'one-eyed' *ōg* 'integer', from *√ aug-*.

Germanic. Goth. *snáiv-s* O.H.G. *snēo* m. 'snow': Lith. *snėg-a-s* O.C.Sl. *sněg-ŭ* 'snow', *√ sneigh-*. Goth. *dag-s* O.H.G.

tag m. 'day': Skr. *ni-dāgh-ā-s* 'hot season', Lith. *dāg-a-s* 'harvest'. O.H.G. *teig* m. O.Icel. *deig* n. 'dough': Skr. *dēh-a-s* 'body', Gr. *roĩx-o-ς* 'wall', √ *dheigh-* 'besmear, cement'. O.Icel. *draug-r* m. 'ghost': Skr. *drōgh-a-s* 'injury inflicted deceitfully'. Goth. *juk* O.H.G. *joh* n. 'yoke': Skr. *yug-ā-m* etc. Goth. *dal* O.H.G. *tal* n. 'valley': Gr. *θάλ-o-ς* 'cupola, dome', O.C.Sl. *dol-ŭ* 'valley'. Goth. *ahv-a* O.H.G. *ah-a* 'water': Lat. *aqu-a*. Goth. *gib-a* O.H.G. *geb-a* 'gift', beside Goth. *giban* 'to give'. Goth. *stáig-a* 'path, way', beside *steigan* 'to climb'.

Adject. Goth. *lagg-s* *lagg* *lagg-a* O.H.G. *lang* 'long': Lat. *long-u-s -u-m -a*. Goth. *liuf-s* *liuf* *liub-a* O.H.G. *liob* 'dear, beloved': O.C.Sl. *ljub-ŭ -o -a*.

Transference into the *o*-declension is frequent, into the *a*-declension more rare; e. g. nom. sing. Goth. *frijōnds* O.H.G. *friunt* 'friend' gen. sing. *frijōndis* *friuntes* and other forms with terminations of the *o*-declension, contrasted with the nom. pl. Goth. *frijōnds* O.H.G. *friunt* etc. which have not modified the original *-nt-* stem (§ 126), O.H.G. nom. pl. *tohtera* 'daughters' dat. pl. *tohterōn* beside the older pl. *tohter* = Gr. *θῡγατέρ-ες* (§ 122).

Balto-Slavonic. Masc. Lith. *mūs-a-s* 'film (on liquids)' O.C.Sl. *mūch-ŭ* 'moss': O.H.G. *mos* n. 'moss'. Lith. *āt-lėk-a-s* O.C.Sl. *otŭ-lėk-ŭ* 'remnant, remainder': Skr. *ati-rėk-a-s* 'remnant, excess' Gr. *λοιπ-ό-ς* 'remaining'. Lith. *ūž-valk-a-s* 'outside covering, bed-covering' O.C.Sl. *oblak-ŭ* 'cloud' (for **ob-vlak-ŭ*, cp. I § 184 p. 160): Gr. *όλκ-ό-ς* 'a drawing, thing drawn'. O.C.Sl. *glagol-ŭ* 'sound, word' (for **gol-gol-ŭ*, cp. I § 281 p. 224): Skr. *gar-gar-a-s*, a musical instrument. Neut. O.C.Sl. *igo* 'yoke': Skr. *yug-ā-m*; O.C.Sl. *tŭl-o* 'ground': Skr. *tal-a-s* 'surface, ground' (√ *tel-*); in Lith. the masc. termination is found in the nom. acc.; e. g. *jūng-a-s* 'yoke', a modification of the Idg. **jug-ó-m*. Fem. Lith. *vaps-à* 'gadfly' O.C.Sl. *vos-a* 'wasp' (I § 545 p. 399): O.H.G. *wafs-a* 'wasp'. Lith. *rank-à* O.C.Sl. *rak-a* 'hand', beside Lith. *renkù* 'I gather, collect'.

Adject. Lith. *saus-a-s* *saus-a* *saus-à* O.C.Sl. *such-ŭ -o -a* 'dry': Skr. *śōṣ-a-s -a-m -ā* 'drying, parching' (*ś-* for *s-*, I § 557, 4 p. 413), Gr. Ion. *αῦ-o-ς* *αῦ-o-ν* *αῦ-η* 'dry'.

Remark 2. It may not be premature to notice here that the Lith. neuter form in *-s* arose from *-o-d* and not from *-o-m*, and is therefore a pronominal termination. See R. Garbe, *Litau. und lett. Drucke des 16. u. 17. Jahrh.*, IV p. XLI.

§ 61. The Suffix *-tu-o- -tu-d- (-tuu-o- -tuu-d-)*.¹⁾
This is an extension of *-tu- -teu-* (§ 108).

Originally it was no doubt primary, and used to form adjectives (cp. e. g. Skr. *kár-tuva-s kár-tva-s* 'faciendus', beside the inf. *kár-tu-m*) whose neuter and feminine forms were used as abstract substantives, on the analogy of which derivative abstract substantives were also formed from nouns (§ 158).

The accentuation of Sanskrit formations like *dēva-tvá-m* 'divinity', and the *d* of the Goth. *þiva-do* 'servitude' (see I § 530 p. 386 f.), shew that **-tuó-m* was the form assumed by the suffix in these secondary abstract substantives in Indo-Germanic.

Compare Ar. *-tvana-* Gr. *-ovvo-* § 70.

In Aryan, the suffix is frequent. In Skr. it appears in gerundives like *kár-tuva-s kár-tva-s* 'faciendus' *ján-tuva-s jani-tva-s* 'procreandus'. The neuters of these gerundives are often used substantivally, as *kár-tva-m* 'task, work to be done'. Compare also Avest. *varš-tve-m* 'work, action' (beside *ver*z-yē-mi* 'I do'), *stao-þwe-m* 'prayer' (beside *stao-mi* 'I praise, pray'). Secondary formations in **-tuó-m*: Skr. *dēva-tvá-m* 'divinity' (*dēvá-s* 'god'), *śatru-tvá-m* 'enmity' (*śatru-ś* 'enemy'), *rakṣas-tvá-m* 'demoniacal nature' (*rakṣás-* 'monster, demon'), Avest. *anhu-þwe-m* 'lordship, might' (*anhu-š* 'lord'), *fratema-þwem* 'a being first, nobility' (*fratema-* 'first').

As to the interchange of *-tva-* and *-tuva-* in Sanskrit see Edgren, *Journal of the American Orient. Soc.*, XI 82 sq.

In Latin it is rare. We can scarcely count *mor-tuo-s* (for **my-tuo-s*): O.C.Sl. *mř-tvŭ* 'mortuus' as an example, cp. I § 170 p. 150; see § 64 Rem. 3 below. But *Fa-tuo-s* (soothsayer) and *ma-tuo-s* no doubt belong here (with the suffix in the form *-tuu-o-*); see I § 170 p. 151.

1) Benfey, *Indog. Part. Perf. auf tua oder tra*, *Nachr. der Gött. Gesellsch. d. Wissensch.*, 1873, n. 7.

In Germanic it is not common. Goth. *vaursto* n. 'work' for pr. Germ. **uux-s-tua-n*, whose *-s-* must be compared with that of *-s-tro-* (§ 62), *-s-lo-* (§ 76), *-s-ti-* (§ 100), *-s-tu-* (§ 108), *-s-men-* (§ 117) ¹). *ahtō* f. 'morning twilight' for **uux-tuō-* (transferred to the *n*-inflexion), ground-form **uq-tuā-*, compare directly Skr. *aktū-ṣ* 'brightness' for **uq-tu-s*, and less immediately Skr. *añj-i-ṣ* 'ointment, adornment'. *vah-twō* or *vah-tva* (only the dat. pl. *vahtvōm* is actually found) 'watch, guard', from *vakan* 'to watch'. A.S. *læs*, gen. *læswe*, f. 'letting blood' for **lēsūō-* i. e. **lēt + tuō-*, beside Goth. *lētun* 'to let', *ræs*, gen. *ræswe*, f. 'counsel' for **rēsūō-* i. e. **rēd + tuō-*, beside Goth. *rēdan* 'to counsel' (cp. I § 527 p. 382). As in all the instances given, so in Goth. *frija-þva* 'love' and *fiþa-þva* 'enmity' from *frijōn* 'to love' and *fiþōn* 'to hate' the suffix is to be regarded as primary; yet *frija-þva* (in imitation of which *fiþa-þva* was afterwards formed) was originally a secondary formation, from the adj. *frija-* '(fre)'e, which in the prehistoric period had meant 'dear', cp. Skr. *priya-tvā-m* 'a being beloved' from *priyā-* 'dear, beloved'. Goth. *þiva-dv* n. 'servitude' from *þiu-s* 'servant'.

In Slavonic it is frequent. Primary: Masc.: O.C.Sl. *mrī-tvū* 'mortuus'? (see above), O.C.Sl. *rybi-tvū* 'fisher'; Neut. Russ. *jas-tvo* 'food', Russ. *ši-tvo* 'sewing', O.C.Sl. *čuvī-tvo* 'organ of sense'; Fem. O.C.Sl. *jas-tva* 'food' *žę-tva* 'harvest' *molī-tva* 'prayer' *gonī-tva* 'pursuit'. Secondary *-(i)s-tvo* (cp. the suffix *-iskū* § 90): *zělīstvo* 'violence' (*zělū* 'violent'), *dětīstvo* 'childhood' (*dětę* 'child'); probably this form of the suffix started from stems in *-i-*, cp. *tatīstvo* 'theft', from *tatī* m. 'thief', *blędīstvo* 'boasting, bluster' from *blędī* f. 'deceit, farce' (cp. *-ība* § 78). In Lithuanian Leskien is probably right in tracing this suffix in the group of names of tools formed with *-tūva-*, such as *kosz-tūva-s* 'strainer, filter' (*kósziu* 'I filter'), *rės-tūva-s* 'roller for winding yarn' (*rēcziū* 'I roll, wind'), *karsz-tūvai* pl. 'woolcarder's comb' (*karsziūvūnas*

1) Goth. *gáido* n. 'lack' no doubt belongs rather to *√ghejdh-* 'desire' (O.H.G. *gū* 'eagerness, greed') than to *gei-gan*, i. e. it should be analysed *gáid-r*, not *gái-dv*.

'I card wool'), *min-tupaī* pl. 'a machine for breaking flax, brake' (*minū linūs* 'I tear flax'). Cp. also Pruss. *pre-artue* 'ploughshare' and *ar-tues* 'ship's voyage'.

§ 62. The Suffix *-tr-o-* *-tr-ā-*, *-tl-o-* *-tl-ā*¹⁾. This is an extension of *-ter-* *-tor-* (§ 119 ff.), cp. e. g. Skr. *ari-tra-* 'oar' from *ari-tar-* 'rower'. Perhaps *l* arose from *r* by some process or processes of assimilation or dissimilation (partly in proethnic Indo-Germanic, partly in the separate languages), cp. I § 282 p. 225 f.²⁾.

The meaning is generally that of the instrument or the place of the action.

Indo-Germanic. Skr. *bharī-tra-m* 'arm' (that with which one bears), Gr. *πέρι-τρον* *πέρι-τρον* 'litter, bier', Lat. *prae-feri-culu-m* 'wide sacrificial dish' (regarded as the instrument for carrying something offered) *fer-culu-m* 'litter, bier'. Skr. m. n. *ari-tra-* O.H.G. n. *ruo-dar* Lith. *ir-kla-s* 'oar', cp. also Gr. *ἑρ-τροία* 'Oarstown'. Skr. *mā-tra* Gr. *μέ-τρον* 'measure' (or should we follow de Saussure, *Mém. de la Soc. de lingu.* VI 248, in assuming this to stand for Idg. **metro-* i. e. **med* + *tro-*?).

Aryan. Skr. *kṣa-trā-m* Avest. *xša-pre-m* O.Pers. *xša-ša-m* 'lordship'. Skr. *vās-tra-m* Avest. *vas-tre-m* 'garment, vesture'. Skr. *dhār-tra-m* 'support' Avest. *dar'-pre-m* 'an upholding, holding fast'. Skr. *vahī-tra-m* 'ship': Lat. *vehi-culu-m*. Skr. *hō-tra* Avest. *zao-ḥra* 'libation, offering': Gr. *χύ-τρον* 'pot' *χύ-τρον* 'libation'.

Armenian. *arōr araur*, gen. *arauro-y*, 'plough' for **ara-tro-* (I § 360 p. 276, § 483 p. 357): Gr. *ἀρο-τρον* 'plough', Lat. *arā-tru-m*, O.Icel. *ar-ḥr* m. 'ploughing', Lith. *ār-kla-s* 'plough'.

1) S. Bugge, *Bemerkungen über den Ursprung der lateinischen Suffixe clo, culo, cro; cla, cula, cra*, Kuhn's Ztschr. XX 134 ff. G. J. Ascoli, *Die lateinischen Formen des ursprünglichen Instrumentalsuffixes -tra* (1867), *Krit. Stud.* 123 ff. H. Osthoff, *Die mit dem Suffixe -clo- -culo- -cro- gebildeten nomina instrumenti des Lateinischen*, *Forsch. im Geb. der nomin. Stammbildung* I 1 ff.

2) In I p. 226 l. 5 instead of 'the nominal suffixes -tro- and -tlo- beside -dhro- and -dhlo-', read 'the nominal suffixes -tlo- and -dhlo- beside -tro- and -dhro-'.

alaur-i 'mill' (from *alam* 'I grind') was a secondary extension of a *tro*-stem: cp. Gr. *ἀλ'-τρο-ιο-ς* 'belonging to grinding' *ἀλε-τρο-εῖω* 'I grind to powder' *ἀλετροῖβανος* for **ἀλετρο-τροῖβανος* 'pulverising by grinding, pestle'.

Greek. *ρόπ-τρο-ν* 'tambourine, lever of a trap' A.S. *ræf-ter* m. 'beam'. *ἐλυ-τρο-ν* 'covering, that which contains': Skr. *varā-tra-m* 'upper garment'. *λέκ-τρο-ν* 'couch, bed': O.C.Sl. *lātr* 'lair of wild animals' pr. Germ. **lax-tra-*. *δέλε-τρο-ν* 'bait, lure', compare no doubt O.H.G. *quer-dar* 'bait, lure' (J. Schmidt, Kuhn's Ztschr. XXV 153). *νίπ-τρο-ν* 'water for washing'. *ρή-τροα* 'agreement, treaty'.

ἄν-τλο-ν *ἄν-τλο-ς* *ἄν-τλη* 'bilge-water, dead-water, baling scoop': cp. Skr. *āma-tra-m* 'vessel, jug, drinking-cup' (Lat. *ex-antlare* *ex-anclare* is the Greek *ἐξ-αντλείν* borrowed, cp. I § 367 p. 278). *ἐχέ-τλη* 'plough-tail'.

Italic. Lat. *cas-tru-m* and fem. *cas-tra*; in Umbr.-Samn. the word has passed into other declensions, Osc. *castrovs* gen. 'fundi' *castrid* abl. 'fundo' Umbr. *kastruvuf* 'fundos'. Lat. *rōs-tru-m* (*rōdō* 'I gnaw'), *arā-tru-m*, *fulgē-tru-m* *fulgē-tra*. Umbr. *kle-tram* 'lecticam': Goth. *hlei-þra* 'hut, tent', √ *klei-*.

-tlo- became *-klo-* in proethnic Italic, except where *s* preceded (I § 366 p. 278). Lat. *piā-clu-m* *-culu-m*, Umbr. *piha-klu* 'piaculorum'. Lat. *sae-clu-m* *-culu-m*: Lith. *sė-kla* 'seed'. Lat. *ind-ū-cula* *sub-ū-cula*: Avest. *ao-þre-m* 'sandal', Lett. *āu-kla* a kind of string (in Lith. the declension has changed, *au-klė* 'bandage for the feet'). Umbr. *eh-vel-klu* 'edictum, decretum', *mantrah-klu* 'mantele'. Osc. *sakara-klúm* 'sacrum'. *-tlo-* is kept after *s* in Osc. *pes-tlú-m* 'sacellum, templum': Umbr. *pers-clu* *pes-clu* 'supplicatione'. *-clo-* became *-cro-* in Latin by dissimilation where an *l* preceded (I § 269 p. 217): *lava-cru-m*: Gr. *λοε-τρό-ν* *λουτρό-ν* 'bath, water for washing', (Gall. *lau-tro* 'balneo', O.Icel. *lau-dr* 'soap'; *lu-cru-m*; *in-volū-cru-m*).

Rarely we find *-s-tro-*, as *mōn-s-tru-m* *capi-s-tru-m* (cp. the Germanic); whence also nouns in *-aster* *-āstra* *-āstru-m*, like *formāster*, *oleāster* *oleāstru-m* (see Seck, Archiv f. lat. Lexicogr. I 390 ff. Schnorr von Carolsfeld, ibid. 404 ff.).

Old Irish. *lō-thor lō-thur* n. 'alveus, canalis' Gall. *lau-tro* 'balneo': Lat. *lavā-cru-m* etc., see above. *tara-thar* n. 'boring tool, gimlet': Gr. *τέρε-τρο-ν* 'gimlet'. *criathar* n. 'sieve': O.H.G. *hri-ttara* 'sieve'? (see the end of the section, p. 122). *ara-thar* n. 'aratrum': Armen. *arōr* etc., see p. 118. *bria-thar* f. 'word'. *cētal* n. 'song' (*cētlō-* for **can-tlo-*). With regard to the development of *-thar* from **tro-m* and from **trā*, and of *-tal* from **tlo-m*, see I § 623 Rem. 1 p. 469 and § 634 p. 475. *cenēl* n. 'family, race' O.Cymr. *cene-tl*. *scēl* n. 'narration, tale' Mod.Cymr. *chwedl* for pr. kelt. **skye-tlo-n*, √ *seq* 'say', *andl* f. 'breath' Mod.Cymr. *ana-dl*. Cp. I § 110 p. 104, § 518 p. 371 f., § 620 p. 467.

Germanic. The *þ* of the pr. Germ. *-þra-* *-þla-* indicates that the sonant next preceding it bore the principal accent (I § 529 p. 384 f.). O.H.G. *lio-dar* A.S. *hleó-dor* 'sound, noise', pr. Germ. *hlēy-þra-*: Skr. *śrō-tra-m* 'hearing, ear'. Goth. *smair-þr* n. 'grease, fat', √ *smēr-* 'besmear'. Goth. *hleī-þra* 'tent': Umbr. *kle-tram* 'lecticam', √ *klej-*. O.H.G. *sta-dal* m. 'shed, barn': Skr. *stha-trā-m* 'standing-place, position'. O.H.G. *wa-dal we-dil* m. n. 'fan, tuft', √ *uē-* 'blow'. Goth. *nē-þla* and *nā-dla* 'needle' (cp. Bremer, Paul-Br. Beitr. XI 5. 277 f.).

O.H.G. *bīhal* n. 'hatchet' pr. Germ. **bīþla-*, Idg. **bhejtlo-* for **bhejd + tlo-*, √ *bhejd-* 'findere' (is O.Ír. *biail*, gen. *bēla*, 'hatchet' connected with this?); O.H.G. *sedal* n. m. 'seat' pr. Germ. **seþla-*, Idg. **setlo-* for **sed + tlo-*, √ *sed-* 'sit'. I follow de Saussure, Mém. de la Soc. de lingu. VI 247. 255¹).

After spirants, *t* is kept (thus the original accent cannot be determined): Mid.H.G. *wes-ter* f. 'baptismal robe' Skr. *vás-tra-m* 'garment'; Goth. *gīlstr* n. 'tribute' from *gīld* 'tribute' √ *gheldh-*; O.H.G. *bluostar* n. 'offering' (Goth. derivative *blōstreis* 'offerer') beside Goth. *blōtan* 'offer'; O.H.G. *riostar* n. and *riostra* f. 'ploughshare' beside Mid.H.G. *riuten* 'root out'; O.H.G. *hlahtar* n. O.Ícel. *hlattr* m. 'laughter'.

1) Germ. **bīþla-*, like Gr. *γυρεό-ς* 'log, piece of wood', which de Saussure similarly derives from *bhejd-*, might certainly be connected with O.C.Sl. *bi-ti* 'strike' *u-boj-i* 'deathblow'.

Pr. Germ. *-dra-* *-dla-* indicate that this suffix bore the accent (cp. Skr. *as-trā-m* *dā-trā-m* etc.), see I § 530 p. 386 f.; yet these pr. Germ. suffixal forms may also represent Idg. *-dhro-* *-dhlo-*, see p. 122. Idg. *-tro-* is probably seen e. g. in Goth. *fō-dr* 'scabbard' O.H.G. *fuo-tar* A.S. *fō-ddor* n. 'case, sheath': Skr. *pā-tra-m* 'that which contains, vessel'.

-s-tra- is fairly frequent; as O.H.G. *gal-s-tar* n. 'song' from *galan* 'sing', compare A.S. *zeal-dor* n. O.Icel. *gal-dr* m.; Goth. *huli-s-tr* 'covering' from *huljan* 'cover'. Cp. Osthoff, Über das eingedrungene *s* in der nominalen Suffixform *-stra-*, Kuhn's Ztschr. XXIII 313 ff., and *-s-tyo-* (§ 61), *-s-lo-* (§ 76), *-s-ti-* (§ 100), *-s-tu-* (§ 108), *-s-men-* (§ 117).

Balto-Slavonic. *-tro-* is found only in a few uncertain examples, as Lith. *vė-tra* 'storm' O.C.Sl. *vě-trŭ* 'air, wind'. The uncertainty is caused by the possibility of a later transference into the *o-* or *a-* declension, which has undoubtedly taken place in O.C.Sl. *bratr-ŭ* 'brother' *sestr-a* 'sister'.

-tlo- occurs only in Baltic, where it appears in Lith. and Lett. as *-kla-* (I § 377 p. 285 f.). Pruss. **sen-tla-* 'token, sign' in the partic. *eb-sentliuns* 'having betokened, marked' Lith. *žen-kla-s* 'token, sign': cp. Skr. *jñā-tra-m* 'ability to recognise' O.H.G. *be-cnuodelen* 'give a sign of recognition' *ir-chnuodilen* 'become perceptible'; from which we may deduce a pr. Germ. form **knō-pla-*. Pruss. *sper-tla-n* 'cushion of the toes', beside Lith. *spir-iū* 'strike with the foot'. Lith. *sė-klà* Lett. *sē-kla* 'seed': Lat. *sae-culu-m*. Lith. *bū-klà* 'home' *bu-kla-s* (*ū*?) 'lair of an animal': Skr. *bhāvī-tra-m* 'world' (this meaning is not certain) A.S. *bold* (for **bodl*) O.Icel. *böl* 'house' pr. Germ. **bu-pla-*. In Slav. *-tlo-* was replaced by *-dhlo-*, see below.

In the European branches, *-dhro-* *-dhlo-* are found side by side with *-tro-* *-tlo-*, and with the same meaning; and the former often displace the latter. Cp. e. g. Gr. *γένε-θλο-ν* *γενέ-θλη* 'origin, race, scion, birthplace': Skr. *janī-tra-m* 'birthplace'. *ἕδε-θλο-ν* 'seat': Lat. *sedī-culu-m*, Lett. *sēde-kli-s* 'seat' (with the addition of the suffix *-iō-*). Lat. *tere-bru*: Gr. *τέρε-τρο-ν* O.Ir. *tara-thar* n. 'borer'. Lat. *sta-bulu-m*: O.H.G. *sta-dal* 'barn'.

Pr.Germ. -dra- -dla- is ambiguous (see p. 121): is for example O.H.G. *hri-ttara* 'sieve' connected with O.Ir. *cria-thar* or with Lat. *crī-bru-m*? In Slav. only -dhlo- occurs, as Czech *rá-dlo* O.C.Sl. *ra-lo ora-lo* 'plough': Lat. *arā-tru-m* etc. (see p. 119), Czech *by-dlo* 'dwelling' Pol. *by-dło* 'cattle, means': Lith. *bū-klà* 'home'. Cp. § 77.

§ 63. The Suffix -io- -ia-, -ijo- -ija-¹⁾.

With regard to the fluctuation between -ijo- and -io- see I § 117 p. 110. § 120 p. 111 ff. A parallel form -ijo- is also found (e. g. Skr. *tyt-tya-s* Gr. *ποθύμ-τη*), whose relation to the two other forms is obscure; it resembles the Skr. -īyas- Gr. -īov (§ 135), forms of the comparative suffix.

In the nom. sing. we find in different languages -ji- or -i- instead of and parallel to -io-. Thus Goth. *har-ji-s*, *brūks* for **brūk-i-s*, *haiŕd-ei-s*; Umbr. *Trutit-i-s* 'Truttidius' (also in the acc., *Fisim* 'Fisium' and neut. *terti* 'tertium'), Osc. *Viñikiis* 'Vinicius' (i), *Púntiis* 'Pontius' (i or -ji-), *Heirennis* 'Herennius' (also neut. *medic-i-m* 'magisterium'), O.Lat. *Cornēl-i-s* (and acc. *Cornēl-i-m*, cp. also voc. *fili*); Lith. *mēd-i-s* and *gaid-ỹ-s*²⁾.

From the earliest period this suffix was both primary and

1) H. Kern, *Le Suffixe ja* du Sanscrit classique, *ia* de l'Arien, *Mém. de la Soc. de lingu.* II 321 ff. F. G. Benseler, *De nominibus propriis et Latinis in is pro ius et Graecis is ov pro ias ior terminatis*, *Curtius' Stud.* III 147 ff. G. F. Aly, *De nominibus io suffixi ope formati*, *Berol.* 1873. J. Aken, *Über die Adjectiva auf ias, ias, ias, ias, ias*, *Emmerich* 1873. G. Meyer, *Das Nominalsuffix io im Griech.*, *Kuhn's Ztschr.* XXII 481 ff. A. Fick, *Zum sogenannten ja-suffix im Griech.*, *Beizenb. Beitr.* I 120 ff. K. Zacher, *De nominibus Graecis in -ias, -ia -ias*, *Halle* 1877. A. Fritsch, *Zum Vokalismus des Herodotischen Dialektes* [on -ias- and -ias- in syllables containing derivative suffixes], *Hamburg* 1888. Th. Aufrecht, *Über die lateinischen Suffixe tia, tio*, *Kuhn's Ztschr.* VI 177 ff. W. Schlüter, *Die mit dem Suffixe ja gebildeten deutschen Nomina*, *Göttingen* 1875.

2) In I § 84 Remark 1 p. 80, I assumed the existence of -ji- as a form of the Idg. suffix beside -io-. As my pupil Prof. W. Streitberg has recognised, it is preferable to assume -i- -i- as the original forms (-i-;

secondary, and its neuter and feminine forms are frequently used as substantives (§ 158).

Three chief functions of this suffix may be distinguished.

1. It forms verbal adjectives with the meaning of the so-called fut. pass. participles or participles of necessity, or with a simple participial meaning, active or passive. In Sanskrit, but nowhere else, these adjectives appear as a class of forms in active and extensive use. The neuter and the feminine are often used as abstract substantives (see above).

Idg. Skr. *yāj-ya-s* Gr. *ᾱγ-ιο-ς* 'venerandus', fem. *yāj-ya āγ-iā*, \sqrt{yag} - 'revere'. Skr. *sāc-īya-s* 'whom one must help, must value', Gr. *ἀσαστηήρ* 'helper' from **śasa-* which stands for **sok^h-iō-*, Lat. *soc-iu-s*, \sqrt{seq} - 'be together with, follow'.

Aryan. In Skr. *-iō-* appears as a living participial suffix; e. g. *dṛś-ya-s* *dārś-īya-s* 'visible, worth seeing' *cēt-īya-s* 'perceptible'. Examples of substantival usage are: neut. *vāc-īya-m* *vāc-ya-m* 'speech, word', fem. *vid-yā* 'knowledge'. For the fluctuation between *-ya-* and *-īya-* see Edgren, Journal of the Amer. Orient. Soc. XI 74 ff.

Following a root ending in a short vowel the suffix assumes the form *-tīō-* instead of *-iō-*, as *kṛ-tya-s* 'faciendus' *kṛ-ty-am*

-ī- = *-iō-* : *-iō-*), so that this form represents the weak-grade phase of the suffix which we are discussing, in the same way as *-i-* represents that of *-iē-* (§ 109). Streitberg is certainly right in laying especial stress on Gothic forms like *brūks un-nuts*. The form *-ji-* arose through the *-j-* being added from cases which had *-iō-* *-iē-*. Just so we have in Lith. *jī-s jī* for **i-s* **i* on the model of *jō* etc. Such forms as Lith. *mō-jī-s* are of the same kind as O.C.Sl. *ladi-jī* § 110 and Skr. *svadhā-yin-* § 116. Beside the Idg. stems formed with *-iō-* *-iē-* : *-i-* (*-iō-* *-iē-* : *-i-*) there probably existed from the pr. Idg. period onwards invariable *-iō-* stems which never had *-i-*. To these however we must not refer nominative forms like Skr. *yāj-y-as* Gr. *ᾱγ-ιο-ς* Lat. *exim-iu-s*, which were new formations (cp. Goth. *brūks*), and similarly Skr. *yā-s* Gr. *ᾱ-ς* (cp. Lith. *jī-s*). I do not believe that the late Greek nouns ending *-ις* *-ιρ* instead of *-ιος* *-ιων* should be classed here as containing an original form of their suffix. They were created on the model of personal names belonging to the classical period, such as *Ἀλεξίς* *Ζεῦξις* (cp. R. Wagner, Quaestiones de epigrammatis Graecis, Lips. 1883, p. 96).

'business' *ky-tyd* 'infliction, bewitchment', a new formation based upon such stems as *-ky-t-* 'faciens' (§ 123).

In Avest. *-ya-* is rarer, e. g. *dar's-ya-* 'visible', *vairya-* 'worth choosing or desiring', *išya-* 'desired, dear'.

Armenian. Here no doubt should be classed *li*, gen. *lioy*, 'full' from **plē-io-*.

Greek. *στυγ-ιο-ς* 'abominable, odious'. *πáy-ιο-ς* 'established, firm, durable'. *σφάγ-ιο-ς* 'slaying, killing'. Substantival usage: *ῥεῖν-ια* pl. 'ruins, debris', *σφάγ-ιο-ν* 'offering, victim for offering'.

Italic. Lat. *exim-ius* 'eximendus, exceptional, distinguished'. *in-fer-ius* 'presented, offered': cp. Avest. *bairya-* 'presenting'. Substantives: *frag-ius* 'breach, fracture', *stud-ius* 'zeal, eagerness, desire', *exuv-iae* pl. 'clothing, cast-off skin'.

Old Irish. Subst. fem. *in-sc-e* 'speech' ✓ *seq-*, neut. *suide* 'seat', ✓ *sed-*, *frecre* for **frith-gaire* (I § 514 Rem. 2 p. 376) 'answering, answer' ✓ *gar-*.

Germanic. Adjectives with the meaning of the fut. partic. pass. are commoner than in other European languages. Goth. *brūkja-* (nom. *brūks*) O.H.G. *prüchi* 'useful, serviceable'. Goth. *un-nutja-* (nom. *un-nuts*) 'useless' O.H.G. *nuzzi* A.S. *nyt* 'useful'. Goth. *un-qēþja-* (nom. *un-qēþs*) 'unutterable'. O.H.G. *gi-fuori* 'suitable, useful'. Here perhaps should be classed Goth. *havi*, 'gen. *háujis*, O.H.G. *hewi* n. 'hay' pr. Germ. **χay-ja-* n. i. e. 'that which is to be cut'. Abstract nouns: neut. O.H.G. *gi-fuori* 'suitability, usefulness' compared with the adj. *gi-fuori*; Fem. A.S. *nyt* O.Icel. *nytr* 'use' compared with adj. A.S. *nyt*, Goth. *brak-ja* 'fight' (originally 'breach') with *brikan* 'to break'.

Balto-Slavonic.

In Lithuanian there are only a few adjectives; e. g. *sriau-ja-s* 'flowing swiftly', *žala-s žale-s* (Pruss. acc. *saligan* with *g = j*) 'green', properly 'being verdant', from *žél-ti* 'to be verdant'. The following may be adjectives used substantivally: *vė-ja-s* 'wind' ('he who blows'), *gaid-ỹ-s* 'cock' ('he who crows'), from *gėd-óti* 'crow', etc., all masculine. Forms formerly neuter used as substantives: *žōd-i-s* 'word' (cp. Skr. *vāc-ya-m*), *kaūd-i-s* 'bite', *kiūt-i-s* 'cut or blow' with a cutting instrument (Skr. *kart-ya-*

'to be hewn or cut off') and other such forms; feminine forms used as substantives are *pradžia* 'beginning' for **pra-d-ia* beside *pra-dē-ti* 'begin' (✓ *dhe-*), *žin-iā* 'knowledge' and others.

Slavonic. Adjectives which should no doubt be classed here are *lūšī* 'deceitful' for **lūg-ī*: O.H.G. *luggi lukki* O.Sax. *luggi* 'deceitful' pr. Germ. **luz-ia-*; also *vědī* 'knowing, aware' for **ved-ī* and other examples. Substantival usage: *lūša* 'lie' for **lūg-ia*: O.H.G. *lugī* 'lie' which implies a form **luz-iō*; *jažda* 'food, victuals' for **ed-ia*: Lat. *in-ed-ia* Skr. *ad-ya-s* 'eatable' O.Icel. *ætr* 'eatable' for **at-ia-z*; *sta-ja* 'position, standing-place, stall'; *dažda* 'gift' for **dad-ia* from the reduplicated form *da-d-give*.

Remark 1. There is often room for doubt whether an -jo-form should be classed here, or whether it be a secondary formation (2). Thus, for example, Gr. *agay-ion-s* may also have been formed from *agay-ē* 'a slaying, offering', O.H.G. *luggi lukki* from *lug* m. 'lie'. It should further be observed that the popular conception of the meaning of a word was very liable to change; a form which was originally primary might be regarded as a derivative, and *vice versa*. Thus e. g. Lat. *rēg-iu-s*, which the Romans certainly looked upon as derived from *rēx*, may very well have been primary to start with: cp. Skr. *rāj-iyā-s*, subst. *rāj-iyā-m*, beside *rāj-* 'king' and *rāj-ī rāj-a-ti* 'shines forth, is conspicuous, rules, governs'; the verbal stem from which *rēgiu-s* was originally derived died out in Latin, and thus the form was firmly established in the popular conception as a derivative of the noun *rēx*. Cp. Rem. 3 p. 132.

2. -jo- as a secondary suffix, forming adjectives which denote possession, origin, and other ways in which one thing may be connected with another. In these adjectives as well as in the former group the neuter and the feminine were often used as substantives with abstract meaning, and then -jo-m and -iā- were taken to form substantives of this kind even where there was no corresponding adjective in -jo-.

It is specially important to notice that in compounds with epithetised meaning, the so-called *bahuvrīhi* (§ 50), and also in adjectival compounds containing a governing preposition (§ 15 p. 30 f.), -jo- is often the sign of the adjectival character of the word; e. g. Gr. *ōuo-nátō-jo-s* beside *ōuo-nátōρ* 'from the same father', Skr. *ānv-āntr-ya-s* 'situated in the intestines'.

Idg. **pətr-ijo-s* 'belonging to a father' from **pəter-* 'father':

Skr. *pṛthiya-s* Gr. *πάριος* Lat. *patriu-s*. When the suffix was added to *o-* and *ā-*stems, the final vowel of the stem was dropped (cp. Rem. 3 p. 132); examples are **ēku-iā-s* 'equinus' from **ēkuo-* 'equus': Skr. *āśviya-s* Gr. *ἰππιος*; **agr-iā-s* 'situated in the fields' from **agr-o-* 'field': Skr. *ajriya-s* Gr. *ἄγριος* ('wild').

Substantives: Skr. *svāpnaya-m* Lat. *somniu-m* O.C.Sl. *sūnīje sūnīje* 'dream' beside Skr. *svāpna-s* Lat. *somnu-s* O.C.Sl. *sūnū* 'sleep'. **ghnt-iā* 'a slaying' seems to be an Idg. fem. of this kind; Skr. *hatyā* 'killing' O.Sax. *gūdea* 'fight' Lith. *gincziā* 'strife', beside the part. pass. **ghn-tó-* (Skr. *hatá-*) 'struck, slain'.

In adjectival compounds: Skr. *dāśa-mās-īya-* Avest. *dasa-māh-ya-* 'lasting for ten months' (beside Gr. *δεκά-μηνος*), Skr. *ūpa-mās-ya-* 'monthly', Gr. *ἐμ-μήν-ιος* (beside *ἐμ-μηνος*) 'running its course in a month' *ἐπι-μήν-ιος* 'calculated for a month, lasting for a month'; Gr. *ὁμο-πάτερ-ιος* O.Icel. *sam-fedr* 'from the same father' (compare O.Pers. *hama-pitar-* Gr. *ὁμο-πάτωρ*).

Aryan. Skr. *gāv-ya-* Avest. *gao-ya-* 'bovinus' from *gav-* 'bos': Armen. *kog-i* 'butter' (see below). Skr. *śravas-īya-* 'glorious' from *śravas-* 'glory' Avest. *manah-ya-* 'spiritual, invisible' from *manah-* 'spirit': cp. Gr. *τέλειος* *τέλειος* 'complete, having reached its end' for **τελεισ-ιος* beside *τέλος* n. 'end, goal'. Skr. *mārt-īya-* Avest. *maš-īya-* O.Pers. *mart-īya-* 'mortal, a man' beside Skr. *mārta-s* 'a mortal, man': cp. Gr. *ἀμβροσίος* 'immortal' (I § 120 p. 112). Skr. *bhēṣaj-yā-*¹⁾ Avest. *baēšaz-ya-* 'containing healing power, medicinal' from *bhēṣaj-ā-m* *baēšaz-e-m* 'healing power, medicine'. Skr. *grām-iyā-* 'belonging to a village' from *grāma-s* 'village, small community', *kṣatr-īya-* 'holding lordship, lord' from *kṣatrā-m* 'lordship', *sén-īya-* 'provided with missiles' from *sēna* 'missile'.

The group of participles in *-tav-ya-* was a new formation in Sanskrit, which did not become at all common until the post-

1) For typographical reasons the *svarita* accent is represented in this volume by the sign of the grave accent, and not as it was in vol. I p. 539.

Vedic period: e. g. *kar-tav-yā-* 'faciendus' from the *nomen actionis* *kār-tu-*.

Substantives. Neut. Skr. *kṣatr-īya-m* 'lordship, sovereign might', *dūt-īya-m* 'message, duty of a messenger' (*dūtā-s* 'messenger'), Avest. *sāsn-ya-* 'announcement, dictate, command' (*sāsna-* 'word, announcement'). Fem. Skr. *pád-yā* 'footstep' (*pád-ya-* 'relating to the foot')¹⁾, *śarav-īya* 'bowshot' (beside *śarav-yā-m* 'goal of the arrow', from *śáru-ṣ* 'arrow').

In adjectival compounds the suffix is rare. Skr. *su-hást-īya-* (beside *su-hást-a-*) 'with beautiful hands' *mádhu-hast-īya-* 'holding sweetness in the hand' *ádhi-gart-īya-* 'situated on the driver's seat', Avest. *dēuśmanah-ya-* 'cherishing evil sentiments, evil-doer' (cp. Skr. *dur-manas-* Gr. *δυς-μενής*).

Armenian. This suffix appears to be contained in the nouns in *-i*. *kog-i* 'butter' ('coming from the cow') with *g* for *u* (I § 162, 2 p. 145) from *koo* 'cow': Skr. *gáv-ya-*. To this group no doubt belong the further examples *gin-i* 'wine', i. e. 'that which comes from the grape' (cp. Gr. *οἶνο-ς* Lat. *vīnum*; for the suffix cp. Lith. *ap-vy-n-ỹ-s* 'hops'), *orj-i* 'not castrated' *mi-orj-i* 'μόνορχις' from *orj* 'male', etc.

Greek. *νά-ιο-ς* *νή-ιο-ς* 'belonging to a ship', from *ναῦ-ς* 'ship': Skr. *nāv-īya-* 'navigable'. *δῖο-ς* 'heavenly, glorious' for **δι-ιο-ς* from *δι-*: Skr. *div-yá-s* 'heavenly'. *πεζό-ς* 'going on foot' for **πεδ-ιο-ς* beside *πούς* *ποδ-ός* 'foot': Skr. *pád-ya-s* 'relating to the foot'. *ἠοῖο-ς* 'early, eastern' for **οσ-ιο-ς*, from *ῥοίς* 'rosy dawn': Skr. *uśas-ya-s* 'dedicated to the dawn'. *γομφ-ίο-ς* 'molar tooth' (orig. an adj. joined with *ὀδούς*) from *γόμφο-ς* 'plug, peg': cp. Skr. *jámbhya-s* 'molar tooth' or 'incisor tooth' from *jámbha-s* 'bite'. Lesb. *χέλλιοι* Ion. Att. *χέλιοι* (*χίλιοι*) 'thousand' for **χεσλ-ιοι* from **χεσλο-* (cp. *δεκά-χίλιοι*): Skr. *sa-hasr-īya-s* 'thousandfold' from *sa-hásra-m* 'thousand'; parallel to this is Dor. *-κατ-ιοι* Aread. *-κασ-ιοι* in *διᾱ-κάτιοι* 'two hundred' from *ἐ-κατό-ν* 'hundred'.

2) With this Gr. *πέζα* 'bottom, extremity, edge, border' is usually compared. Perhaps we should assume the existence of an original subst. **ped-īā*.

σωτήρ-ιος 'saving, delivering' from σωτήρ 'saviour'. λειμών-ιος 'belonging to the meadows' from λειμών 'meadow'. Ion. (and other dial.) βασιλή(φ)-ιος 'kingly' from βασιλεύς 'king' and the like (Att. -ειο-), whence the ending -ηιος spread to other stems, e. g. ἀνδρ-ήιος, πολεμ-ήιος. τίμ-ιος 'held in honour' from τίμη 'honour'.

Remark 2. There remain certain groups of nouns, ending in -σιος- -σιος- -ειος-, and retaining the ι (e. g. ἡκισιός, ἀλλοσιός, οἰκειός), which occur in several extensive classes of formations; but their origin and development is still in many respects obscure, in spite of many attempts to investigate the subject thoroughly (see p. 122 footnote 1). They cannot be directly connected with Sanskrit forms like *hiraṇyá-yas* 'golden' from *hiraṇya-m* 'gold', *gavyá-yas* 'bovinus' from *gavyá-m* 'bovinum', nor with Lith. *vasarà-jis* 'field sown with spring-corn' from *vasarà* 'summer'. ἀλλοσιός, etc. may well have been formed on the analogy of ποσιός, ροσιός, which probably arose from -οι-ίος. Thus -σιος- -ειος- (the latter only in some words) perhaps, go back to -αι-ίω -ει-ίω. Have they any connexion with Skr. -ṛya-?

Substantives. θελκτήρι-ιον 'delight, magic charm' from θελκτῆρ-ιος 'enchanting' θελκτῆρ 'charmer' αἰδοῖο-ν 'pudendum' from αἰδοῖο-ς 'he before whom one feels shame', αἰδώς 'shame, modesty'. After the time of Homer neuter forms like these often assumed a diminutival meaning, as ὀρνίθ-ιον 'little bird', ἑταίρ-ιδ-ιον 'little mistress', ἀσπίδ-ιον 'little shield' (hence -ιδ-ιον broke off as an independent suffix: ἀδελφ-ίδ-ιον 'little brother' ξιφ-ίδ-ιον 'little sword'); the intermediate stage between these two meanings was that of belonging to a kind; cp. the suffix -ῖνο- in Germanic (§ 68). σωτηρί-α 'deliverance' from σωτήρ-ιος; ξεν-ία 'hospitality' from ξέν-ιος 'hospitable'. ἡσυχ-ία 'quietude' from ἡσυχ-ιος 'quiet'. The endings mentioned in Remark 2 were also used in the same way in substantives; e. g. Ion. ἀναγκαίη 'necessity' from ἀναγκαῖο-ς 'necessary' (compare ἀνάγκη 'necessity').

Adjectival compounds: ἐννεά-βο-ιος 'worth nine oxen', παν-ημέρ-ιος (beside παν-ήμερο-ς) 'lasting the whole day', πενθ-όρ-ιος (and ψεύδ-ορ-ος) 'forsworn'. Where the compound contains a preposition which, in sense, governs the latter part, -ίω- is fairly regular; e. g. ὑπ-ασπίδ-ιος 'situated under a shield', παρα-θαλάσσι-ος 'situated near the sea' (§ 31 p. 53).

Italic. Lat. *Jov-iu-s* 'belonging to Juppiter' Umbr. *Iov-iu* abl. 'Jovio' Osc. *Iúv-ia* 'Joviam'. Lat. *cēnsōr-iu-s* from *cēnsor*. *praecōn-iu-s* from *praecō*. *lucr-iu-s* from *lucru-m*. *nox-iu-s* from *noxa*.

Substantives. Lat. *augur-iu-m* beside *augur-iu-s* from *augur*, *dēversōr-iu-m* beside *dēversōr-iu-s* from *dēversor*, *hērēd-iu-m* from *hērēs* (stem. *hērēd-*), *collēg-iu-m* from *collēga*. *nox-ia* beside *nox-iu-s* from *noxa*, *custōd-ia* from *custōs* (stem *custōd-*), *famil-ia* Umbr. *fameŕ-ias* nom. 'familiae' beside Lat. *famulu-s*; Osc. *medikk-iaí* loc. of *medikk-iā-* 'function of a *medix*' (cp. Lat. *vindic-ia* from *vindex*).

Adjectival compounds. Lat. *acu-ped-iu-s* 'swiftfooted', *falci-ped-iu-s*: cp. A.S. *ān-fēte* 'one-footed' (cp. below under Germanic); *falsi-jūr-iu-s*; *centi-nōd-iu-s*; *in-vīn-iu-s*. Where there was a governing preposition, other adjectival suffixes were generally employed, cp. *ante-lūc-anus-*, *extra-ordin-ariu-s* and similar compounds.

Old Irish. Besides the adjectives in *-de -te*, which shew an extension of the suffix (as *dāl-te* 'forensis' from *dāl* 'forum', *daur-de* 'quernus' from *daur* 'quercus'), it can hardly be said that any derived adjectives remain which are formed simply with *-io-*. But many of the substantives connected with these adjectives have been preserved; e. g. *auc ōa* 'grandson' = O.C.Sl. *u-ŕi* Pruss. *awi-s* 'uncle', beside Lat. *avo-s* 'grandfather'. Neut. *orbe orpe* 'inheritance, heritage' = Goth. *arbi* 'heritage', common ground-form **orbh-iō-m* (I § 139 p. 124 f., § 335 p. 267, § 524 p. 380), beside Armen. *orb* 'orphan' Lat. *orbu-s* 'set free, bereft, orphaned' (the original meaning therefore of the Irish and German word was probably 'something, i. e. property, bereft, left behind'), *cenēle* 'genus' from *cenēl* 'genus' (cp. Gr. *εὐναῖο-ν* *εὐναῖα* beside *εὐνή* 'couch', *ἀναγναῖν* beside *ἀνάγκη* 'necessity', *οἰκτο-ν* *οἰκία* beside *οἶκος* 'house', O.C.Sl. *ognište* n. 'fireplace, hearth' for **-isk-je* beside Pol. *ognisko* n., and the like). Fem. *lane* 'plenitudo' from *lan* 'plenus', *ōge* 'integritas' from *ōg* 'integer', *galarche* 'aegritudo' from *galrach* 'aeger'.

Cp. also Gallic proper names like *Cintugnāt-iu-s* beside *Cintugnātu-s*, *Tout-iu-s* beside *Toutu-s* (cp. Gr. Ἀντιγένης-ιος, Τελαμών-ιος).

Germanic. In the adjectival use it is no longer a living suffix, its place having been taken by -īna- -za- etc.; but it is frequently retained in substantives. Goth. *niþ-ji-s* 'cousin, kinsman' O.Icel. *nið-jar* pl. 'descendants, offspring' A.S. *niddas* pl. 'men' for **ne(p)t-iō-* (I § 527 p. 382) beside O.H.G. *nefo* 'nephew, kinsman', Idg. *atem* (in the weak form) **nept-*: Avest. *napl-īya-* 'kinsman', Gr. ἀνεψ-ιος O.C.Sl. *net-ijǎ* 'first cousin'. Goth. *hairdeis* O.H.G. *hirti* 'herdsman' ('he who belongs to the herd') pr. Germ. **xirð-iā-*, beside Goth. *hairda* O.H.G. *herta* 'herd'. Goth. *gufþblōstr-ei-s* 'offerer' beside O.H.G. *bluostar* 'offering'. O.H.G. *ouwa* O.Icel. *ey* (pl. *eyjar*) 'marshy land, island' ('watery' f. scil. 'earth', cp. Gr. πολεμιά 'enemy's land') for **a(ʒ)u-iō* (I § 444 c p. 330), beside Goth. *ahva* O.H.G. *aha* 'water'.

Neuter and feminine forms used as substantives. Goth. *reik-i* O.H.G. *rīhh-i* n. 'realm, lordship' beside Goth. *reik-s* 'lord, ruler': Skr. *raj-iyā-m*, yet cp. Rem. 1 p. 125. Goth. *andbaht-i* n. 'service' from *andbahts* 'servant', *þiub-i* n. 'theft' from *þiufs* 'thief'. Goth. *hauhisti* n. 'the highest height' from *hauhists* 'highest': cp. Skr. *jyāiṣṭh-ya-m* 'highest power' from *jyēṣṭha-s* 'most powerful'; Goth. *unháili* n. 'illness' from *unháils* 'ill'. O.H.G. *diub-(i)a* f. 'theft' beside Goth. *þiubi* n. Goth. *ga-riud-jō* f. 'shame' (transferred to the *n*-decl.), beside *ga-riud-i* n., from *ga-riups* 'modest, chaste'.

It is probable that some of the adjectival compounds of West-Germanic (and Norse) like O.H.G. *heiz-muot-i* 'hot-tempered, passionate' *lang-līb-i* 'longaevus' are old *iō*-stems (cp. Kluge, Nom. Stamm. p. 77. 104). We must certainly class here Goth. *uf-aiþ-ei-s* 'under an oath, bound by oath', and the Goth. substantival neuter forms *fáura-daúri* 'that which is before the door, street' *anda-naht-i* 'the time close on night'.

Balto-Slavonic. In Lithuanian the suffix is no longer in use to form adjectives; but it often occurs in groups of compounded suffixes, as -in-i-s (*med-in-i-s* 'wooden').

Masculine forms used as substantives. *arkl-j-s* 'horse' from *árkla-s* 'plough'. To this class also belong *musū-ji-s* 'he who is ours' from gen. *músū* 'our' (cp. O.C.Sl. *naši* 'our' for **nās-ji* beside the gen. *nasū*), *Prūsaicziū-ji-s* 'he who belongs to the family *Prūsaicziai*', and the like.

Some masc. forms are derived from substantival neuters: *ilg-i-s* 'length' from *ilga-s* 'long', *szalt-i-s* 'coldness' from *szalta-s* 'cold' etc. (cp. the Slavonic below).

This *-jo-* appears in adjectival and indeed in most other compounds; e. g. *tri-rāš-i-s* 'three-pronged' from *rāša-s* 'prong', *minkszt-galv-i-s* 'soft-headed' i. e. 'weak-headed' from *galvā* 'head', *apj-vakar-i-s* 'the time towards evening' (an adj. used as a subst.). The general practice of forming compounds with *-jo-* may have sprung from this group of words.

In Slavonic it is still living as an adjectival formative suffix (*-je-* = orig. *-jo-* and *-ije-* *-ije-* = orig. *-ijo-*, I § 36 p. 37), forming adjectives from the names of living beings, e. g. *materi* 'motherly' from *mati*, *člověči* 'human' from *člověku*, *ovčji* and *ovčiji* 'ovium' from *ovica*, *synovji* 'filii' (for the *l* see I § 147 p. 132) from *synū* (*synov-*, cp. Skr. *iṣav-yā-* 'relating to an arrow' from *iṣu-*, Gr. *ἀσρεῖο-ς* for **ἄσρετ-ιο-ς* 'town-like' from *ἄστυ*), *bož-ijji* *bož-iji* 'divine' from *bogu*, *děvji* *děviji* 'maidenly' from *děva*.

Neuter forms used as substantives: *ostrije* 'sharpness' from *ostrū* 'sharp', *lakomije* 'greediness' from *lakomū* 'covetous, greedy' (cp. Lith. *ilgi-s* and the like), *polizije* 'usefulness, use' from *poliza* 'useful', *znamenije* 'designation, mark, token' from *zname* 'mark, token' and (with collective meaning) *kamenije* 'stone-work, stones' from *kamy* 'stone', *dražije* 'timber-work, beams' from *dragū* 'beam', and so forth. Feminine forms: *suša* 'dryness' from *suchū* 'dry', *qrožda* 'folly' from *qrodū* 'foolish', *bratřija* 'brotherhood, brothers' (cp. Gr. *φρατρία*). In all these instances the adjectives from which the substantives came have fallen out of use.

Only isolated examples of adjectival compounds have this suffix; e. g. *bez-otěči* 'without a father, fatherless' (*otěci* 'father')

bez-umli 'without sense, unintelligent' (*umū* 'sense') like Lith. *be-tėvis* *be-prōti-s*.

Remark 3. The fact that in many cases we cannot tell whether *-io-* is primary or secondary (see Rem. 1) naturally suggests the question, whether its use as a secondary suffix may not be wholly due to a relation accidentally established between *io-*formations which originally were primary, and nouns containing the same root, as for instance between **rēg-io-* and **rēg-* 'ruler, king'. In this case it would be questionable whether the disappearance of the *-o-* and *-ā-* of the stem was a real phonetic process, or whether, which is far more probable, some originally primary formation, e. g. **jug-io-* ($\sqrt{\text{jug}}$ 'yoke to, unite') was brought into connexion with a noun like **jugā-m* 'yoke', and that this alone caused the apparent loss of the stem-final wherever it takes place. Such instances as Skr. *bhuraṇ-yā-ti* 'he is active' derived from *bhuraṇ-* 'active', Gr. *μελίσσω* for **μελῖχ-ω* from *μελῖχ-ος* must also, no doubt, be taken into account. I must content myself here with directing attention to these questions, which are still unsettled. — On these points the student may now be referred also to Windisch, *Über die Verbalformen mit dem Character R*, p. 55 f.

3. There are some adjectives in which *-io-* appears to have had a comparative meaning (cp. superl. **medh-ṛmmo-s* § 72 beside **medh-io-s* 'medius'), so that *-ies-* *-is-* (e. g. in Skr. compar. *nāv-yas-* superl. *nāv-iṣ-ṭha-*, § 81. 135) may be regarded as an extension of *-io-* by an *s*-suffix.

**al-io-s* 'alius': Armen. *ail*, Gr. *ἄλλο-ς* Lat. *aliu-s* O.Ir. *aile* Goth. *alji-s*; cp. Ar. **an-ia-* 'alius' (Skr. *anyā-* Avest. *anya-* O.Pers. *aniya-*), which is derived from another root but is similarly formed. **medh-io-s* 'medius': Skr. *mādhya-s* 'medius', Armen. *mēj*, gen. *mijoy*, 'midst', Gr. *μέσσω-ς μέσο-ς*, Lat. *mediu-s*, Gall. *Medio-matrici*, O.C.Sl. fem. used substantively *mezdu* 'boundary' for **medja* (cp. O.Sax. *middea* O.Icel. *miðja* — a weak fem. — 'midst'). **neṃ-io-* beside **neṃ-o-s* 'new, young' (cp. Skr. *nū*, Gr. *νι* etc.): Skr. *nāvya-s*, O.Ir. *nūe* (Gall. *Novio-dūnu-m*), Goth. *niuji-s*, Lith. *naūja-s*. Skr. *sav-yā-s* O.C.Sl. *śu-jī* 'left' (cp. I § 185 p. 161). Gr. *δεξι-ός* 'right'.

Certain possessive pronouns with *-io-* should be placed in this group; e. g. Lat. *meu-s* for **me-io-s* (I § 134 p. 121) Pruss. *mais* (stem *ma-ia-*) O.C.Sl. *mo-jī* 'my', Ose. tium 'tu' Umbr. *tiu tiom* 'te', properly 'tuum', Pruss. *tuois*

(stem *twa-ia-*) O.C.Sl. *tvo-jǎ* 'thy', and further Skr. *mad-īya-s* 'my' *tad-īya-s* 'his, eius'. Then e. g. **me-jo-* would be related to **mo-* (Avest. *ma-* Gr. *ἐμός*) as Gr. *ἐμέ-τερος* to *ἐμός*.

We should also include certain ordinal numerals with *-jo-*. Skr. *pūrv-iyā- pūrv-īya-* 'previous, first', Avest. *pavīrya-* 'first', Gr. *πρόην* 'lately' for **proF-iā-v* (I § 306 p. 242). Skr. *dvit-īya-* Avest. *bit-ya-* 'second'. Skr. *tṛt-īya-* Avest. *pṛit-ya-* Lat. *tert-in-s* Goth. *þrid-ja-n-* Lith. *trėczia-s* for **tret-ia-s* O.C.Sl. *tret-jǎ* 'third' beside Gr. *τρίτος*. Skr. *tūr-ya-* *tur-īya-* Avest. *tūīrya-* 'fourth' for **ktur-* (I § 471 p. 343).

This third function of the suffix *-jo-* appears also in active use in some of the separate Indo-Germanic languages. E. g. Goth. *fairneis* O.H.G. *firni* 'old' and Goth. *alþeis* 'old' may have been formed on the model of *niuji-s*.

§ 64. The Suffix *-yo- -yā-, -uyo- -uyā-*. This is both primary and secondary; it is found in substantives and adjectives, but no special meaning can be assigned to it. In Latin and German we must notice its frequent use in forming adjectives to denote colour, a function it acquired simply by analogical extension. In these and in some other languages *-yo-* appears still as a living suffix.

Idg. **ek-yo-s* 'horse', fem. **ek-yā* (often referred to Skr. *āś-ū-ś* Gr. *ὠκ-ύ-ς* 'swift' Lat. *acu-pediū-s*, but it is difficult to reconcile the vocalism): Skr. *āśva-s* *āśvā*, Gr. *ἵππος* (the fem. perhaps survives in *ἱππη-μολγοί* 'milkers of mares'), Lat. *equo-s* *equa*, O.Ir. *ech*, Goth. *aiþva-* seen in *aiþva-tundi* 'πάτος', Lith. *asvā*. **gē-yo-* 'living' (✓ *gei-* 'to be astir, to live'): Skr. *jīvā-* Lat. *vīvo-s* Mod.Cymr. *byw* Goth. *giu-s* (stem *giea-*) Lith. *gýpa-s* O.C.Sl. *živŭ*. **uidheyo- -eyā-* beside Skr. *vidh-* 'become empty, lack': Skr. *vidhāva-s* 'unmarried' *vidhāva* 'widow', Gr. *ἡίδεος* 'unmarried' (the explanation of the *ἡ-* is doubtful; see Wheeler, Der griech. Nominalacc. 110), Lat. *viduo-s* *vidua*, O.Ir. *fedb* Mod.Cymr. *gweddw* (I § 174 p. 154) Goth. *viduvō* (*n*-stem) O.C.Sl. *vīdova* 'widow'; the word should no doubt be analysed **uidhe-yo-* and compared with words like Skr. *yaj-a-tā-s* *darś-*

-a-tā-s Gr. ἑπ-ε-ρόν λή-ε-σι-ς, containing the *-e-* of thematic verbal stems (§ 79. 100), cp. Lat. *vac-uo-s* etc. below.

-uo- occurs as a secondary suffix in **patr-uo-* **patr̥-uo-* and **patr-u-jo-* (a derivative form with *-jo-*) 'father's brother, uncle': Skr. *pitṛvya-* Gr. (Ion. Cret.) πάτωρ for **πατρω-φο-ς* (*ρω-* = *-r̥-*, I § 306 p. 241 f.) Lat. *patruo-s* O.H.G. *fetiro* and *fatureo* (**faðurujā-n-*); for the Avest. *tūirya-* see Bartholomae, Bezzenberger's Beitr. X 271 f.

In the form *-uuo-*. Skr. *dhr-uvā-* 'firm' beside O.C.Sl. *sū-dravŭ zdravŭ* 'sound, healthy' for **-dor-vŭ*.

Aryan. Skr. *viś-va-* Avest. O.Pers. *vīspa-* (I § 159 lp. 142) 'all' (in Skr. it also means 'containing or pervading all'), beside Skr. *viś-* 'enter, penetrate, take possession of' (orig. 'completely filled' or 'filling', cp. Skr. *śa-śvant-* Gr. *πᾶς* § 126). Skr. *ṛk-vā-* 'praising'. Skr. *pak-vā-* 'ripe' (from *pac-* 'to cook'). We have already noticed that Skr. *dhruvā-* 'firm' should be classed here, i. e. *dhr-uvā-* with the dissyllabic form of the suffix, cp. O.C.Sl. *sū-dravŭ* 'sound, healthy' for **-dor-vŭ*¹).

The suffix is also denominative in some instances; e. g. Skr. *kēśa-vā-s* 'long-haired' from *kēśa-s* 'hair', *rāsna-vā-s* 'provided with a girdle' from *rāsna-* 'girdle', *añji-vā-s* 'slippery, smooth' from *añji-ś* 'unguent', *rājī-vā-s* 'striped' from *rājī-* 'stripe'.

In some cases it is doubtful whether the suffix is primary or denominative: Skr. *pār-va-s* 'former, earlier' Avest. *pourva-* O.Pers. *parūva-* (read *parva-*) 'earlier': Gr. **παρ-φο-* seen in Dor. *παρ* 'formerly' for **παρ-φά-ν* and in *παῦρο-ς* Dor. *παῦρο-ς* 'first' for **παρ-φ-αρο-ς* (I § 306 p. 242), O.C.Sl. *pri-vy-jŭ* 'first'. Similarly Avest. *aē-va-* O.Pers. *ai-va-* 'unus': Gr. *οἶ-φο-ς* *οἶο-ς* 'alone', cp. **oi-no-* in Lat. *oino-s* *anu-s* etc.

Armenian. *keu-*, seen in *kea-nē* (gen. *ken-aç*) 'life' and other words, seems to have been developed from **kiva-* and accordingly to belong to the stem **gī-uo-* (see above). Compare Hübschmann, Armen. St. I 35.

1) Elsewhere *-uva-* for *-va-* in the Rig-Veda is 'a sporadic and doubtful exception'. See Edgren, Journ. of the Amer. Orient. Soc. XI 82.

Greek. ὀρθός 'upright' for *ὀρθ-fo-ς: Skr. *ardhvá-s* 'upright', Lat. *arduo-s*, O.Ir. *ard* (*ardd art*) 'high, great, noble'; with which we may compare *Arduenna silva*, Idg. **ǵdh-uo-s*. *κόρη-fā* (in Thessal. ? inacr.), Ion. *κούρη* Dor. *κώρη* Att. *κόρη* 'girl' (I § 166 p. 146 f.). *λαί-(f)ός* 'left': Lat. *laevo-s* O.C.Sl. *lěvŭ* 'left'; compare no doubt Germ. **slai-ma-z* 'weary, weak, dull, slow' (O.H.G. *slēo* A.S. *slaw* O.Icel. *sljör*), so that this word for 'left' would represent the opposite of the universal Indo-Germanic word for 'right', Skr. *dākṣiṇa-* Gr. *δεξιός* etc., in as much as the original meaning of the latter involved the notion of strength, ability, or cleverness, as is shewn by the Skr. *dákṣa-* 'strong, able, skilful'. **κεν-φό*-ς 'empty' Lesb. *κέννος* Ion. *κενός* Att. *κενός* ¹⁾; the by-form *κενε-φό*-ς, represented by Cyp. *κενευφό* Ion. *κινεός*, is parallel to *ιε-ρός* beside *ἱ-ρός*, and similar pairs of forms.

-fo- as a secondary suffix is no doubt to be traced in verbal adjectives ending in -τέος, which stands for *-τε-fo-ς, as *διωκτέος* 'to be pursued', and in adjectives in -αλέος, standing for -αλε-fo-ς, as *ῥωγαλέος* 'fragmentary, torn': these are based on stems in -το- and -αλο-.

Remark 1. Hesiod's *φατειός* either represents an extended stem formed with -ιο-, *-τε-f-ιο-ς, or (which seems to me less likely) is a later corruption of a true Hesiodic form *φατενός*.

The Skr. accent in *keṣa-vā-* etc. (see above) suggests the conjecture that -τέος in dactylic words came from *-τεός (cp. I § 676 p. 542 f.), and that -αλεος afterwards conformed to the same type.

-fo- as a secondary suffix is perhaps also to be recognised in ἴσος ('ret. *físofo-s* 'equal', since the word may be referred to **uit-s-*, a weak form of the stem of **meid-es-* *εἶδος* (cp. § 132); the pr. Gr. form will then have been **fitso-fo-s*, cp. Umbr. *mersuva* from **med-(e)s-* cited below. ἴσος has already been connected with *εἶδομαι* by Bechtel, *Philolog. Anzeiger* 1886 p. 15, who also gives the pr. Gr. form as **fidsofos*, but suggests no satisfactory explanation of the σ.

1) In the Att. *κηνότερος* *κηνότατος* the use of ο instead of ω (contrast *σποφώτερος*) is a reminiscence of the older form **kenfo-s*. Cp. § 75.

Here too we should no doubt class ξένφο-ς 'strange, foreign' Ion. ξείνο-ς Att. ξίνο-ς (I § 166 p. 146); yet it is not clear whether -fo- is primary or secondary.

Italic. Lat. *ar-vo-m*, Umbr. *arvam-en* 'in arum': Mod.Cymr. *er-w* 'cultivated land' Bret. *er-v* 'furrow'. Lat. *sal-vo-s*, Umbr. *salvom saluom* 'salvum' *salvam* 'salvam': compare Skr. *sár-va-s* Gr. οὔλο-ς ὅλο-ς (*ὀλ-fo-ς) 'all, whole'. Lat. *vī-vo-s* Osc. *bivus* nom. 'vivi': Skr. *jī-vá-s* etc., see p. 133 above. Lat. *cal-vo-s*: Skr. *kul-va-s* 'bald'. Lat. *scae-vo-s*: Gr. σκαί-(f)ό-ς 'left', and add O.Icel. *skeika* 'go awry, go wrong' (**skaikō-* for **skaikūā-*, see S. Bugge, Paul-Br. Beitr. XIII 515). In words denoting colours: *hel-vo-s*: O.H.G. *gelo* 'yellow', common ground-form **ghel-uo-s*; *gīl-vo-s*, *ful-vo-s*, *flā-vo-s* (for **bhl̥-uo-s*, compare O.H.G. *blāo* 'blue'?), *rā-vo-s*, *fur-vo-s* (I § 569 p. 426). Such forms as *vacuo-s*, *nocuo-s*, *perspicuo-s*, *assiduo-s* may be of the same kind as *viduo-s*; *vacuo-s*, for instance, will then have come from **vace-uo-s*, the intermediate stage being **vacouo-s* (I § 65 p. 52).

The suffix is secondary in *Minerva* for **menes-uā* beside Skr. *mānas-* Gr. μένεις- n. 'mind, sense' (cp. Skr. *manas-vin-* 'having sense, intelligent'); Umbr. *mersuva* abl. 'solita' for **meīs-uā(d)*, i. e. **med(e)s-uo-* from *meīs-* 'ius'. Also in Lat. *annuo-s* from *annu-s*, *strēnuo-s* beside Gr. στρεῖνο-ς 'strength', *cernuo-s* from **cerno-* (or **cernā-*) for **cers-no-* 'head', cp. Gr. κράννᾱ κρίνῃ (ἀμφι-κράνο-ς) for **κρασ-nā*; here too we should probably place the examples of -uo-s from **e-uo-s*, cp. Skr. *kēśa-vā-s* Gr. δωκτέ-(f)ο-ς.

Remark 2. Do the adjectives in -ivo-s, as *captivo-s* *furtivo-s* *sēmentico-s* *nocivo-s* *cadivo-s*, come from feminine forms in -i- (cp. Skr. *rāji-vā-s*), or from derivative verbs in -ire (**nocire*), like Lith. *dalyj-va-s* from *daly-ti*, Slav. *chodi-vū* from *choditi* (see below)? In either case there must have been a change of usage, from the primary to the denominative or *cice versa*.

Old Irish. *tar-b* Gall. *tar-vo-s* Mod.Cymr. *tar-w* 'ox', usually compared with Gr. ταῦρο-ς, which is said to stand for **tag-fo-s* (I § 639 p. 479). *mar-b* Mod.Cymr. *mar-w* 'dead', compared with ✓*mer-* 'die' (cp. Rem. 3).

Remark 3. Osthoff regards *marb* as modelled on the form of its opposite **gi-uo-s*, O.Ir. *biu beo* Mod.Cymr. *byw*, whilst Bréal (Mém. de la Soc. de lingu. VI 127) holds that even the Lat.-Slav. **mrtuo-* 'dead' (Lat. *mortuo-s* O.C.Sl. *mrtvū*) was originally **mrtō-* and that it was altered on the same analogy. This seems to me not unlikely; and I would also suggest that possibly the Kelt.-Germ. **deks-uo-* 'dexter' (O.Ir. *dess* O.Cymr. *dehou*, Goth. *talhva*) may owe its suffix to one of the two words for the opposite idea, **laij-uo-* **skaij-uo-* (see pp. 135, 136) (cp. Gr. *δεξιτερῶς* on the analogy of *ἀριστερῶς*, late Lat. *senexter* instead of *sinister* on the analogy of *dexter*, and many similar examples, Ber. der sächs. Gesellsch. der Wiss., 1883, p. 191 f.)

Germanic. Goth. *hlái-v* n. O.H.G. *hlēo*, gen. *hlēwes*, 'grave-mound' ground-form **kloi-uo-*: Lat. *cli-vo-s*, √ *klej-* 'lean, incline'. A.S. *earo* O.Icel. *orr* 'swift' from which Finn. *arvas* is borrowed: cp. Skr. *ár-van-* 'hasting, swift'. O.H.G. *rāwa ruowa* 'quietude, rest' pr. Germ. **rē-uo-* **rō-uo-*: Gr. *ἐρω-(f)ή* 'letting loose, cessation, rest'. Words denoting colour; O.H.G. *gelo*: Lat. *helvo-s*, O.H.G. *salo* 'black, dirty', O.H.G. *blāo* 'blue' (compare Lat. *flavo-s*?), A.S. *baso* 'purple' etc. (Kluge, Nom. Stamm. 81).

Balto-Slavonic. Lith. *pỹ-va-s* 'beer' O.C.Sl. *pi-vo* 'draught, intoxicating drink', compared with *pī-* 'to drink' (O.C.Sl. *pi-ti* 'to drink' Skr. *pī-ti-* 'draught' Gr. *πῖ-vo* 'I drink' etc.); and since this is no doubt identical with *pī-* 'swell, be fat' (Osthoff, Morph. Unt. IV 41. 167), the word must be closely related to Skr. *pī-va-s* Gr. *πῖ-(f)ω-s* 'fat'. Lith. *pal̃-va-s* O.C.Sl. *pla-vũ* 'yellowish white, tawny' (it is possible that the Lith. word was borrowed from the Slav.): O.H.G. *falo* 'fallow, tawny'. Pruss. *zy-va-* O.C.Sl. *si-vũ* 'gray': related to Skr. *śya-va-* 'dark brown'. Pruss. *pel-wo* O.C.Sl. *plē-va* 'chaff', beside Lith. *pelaĩ* pl. 'chaff'. Lith. *piļ-va-s* 'belly'; *kal-và* 'hillock' (from *kėl-ti* 'to lift'). O.C.Sl. *krava* 'cow' for **kor-vā* (Lith. *kárvė*, containing a further suffix), compare Lat. *cer-vo-s*; *gri-va* 'mane': Skr. *grī-vā* 'nape, neck'.

In Lithuanian it occurs in adjectives in *-y-va-s*, connected with verbs in *-y-ti*, as *dalỹ-va-s* 'sharing in' (*dalỹvu būti* 'be a sharer in') from *dalỹ-ti* 'to divide', *akỹ-va-s* 'provided with eyes, inquisitive' from *akỹti* 'to get eyes, become porous' (cp. *akỹla-s* 'observant'). In Slavonic there are adjectives in *-i-vũ* *-a-vũ*,

connected with verbs in *-i-ti -a-ti*, as *chodi-vū* 'moving' from *chodi-ti* 'to go', *ljubi-vū* 'loving' from *ljubi-ti* 'to love', *laska-vū* 'coaxing, flattering' from *laska-ti* 'to flatter', *dēla-vū* 'effective, active' from *dēla-ti* 'to effect, work'. These adjectives in *-y-va-s -i-vū* are parallel to the Latin adjectives in *-ivo-s*; see Rem. 2.

§ 65. The Suffixes *-no- -nā-, -yno- -ynd-* and *-eno- -enā-, -ono- -onā-¹⁾*.

With regard to the relation of *-yno-* to *-no-*, see I § 227 p. 193 f.

It is often maintained that the first vowels of *-eno -ono-* are the same as the verbal thematic vowels *e* and *o*, so that e. g. the stem of Skr. *bhāraṇa-m* 'act of bearing' is to be divided into *bhāra-ṇa-*, and compared with the *bhāra-* of the 3. sing. *bhāra-ti*; and that of Goth. *batran* 'to bear', into *baira-na-*, and compared with the *batra-* of the 1. pl. *batra-m*. This analysis cannot be justified by reference to forms like **dōno-m* 'act of giving' (Skr. *dāna-m*, Lat. *dōnu-m*) beside **bhereno-m* **bherono-m* 'act of bearing', or to such as part. pass. **dhēno-s* seen in O.H.G. *gi-tān* 'done' O.C.Sl. *o-dēnū* 'done round with, set round with, clothed' beside O.H.G. *gi-zog-an* 'drawn' (*-ono-*) O.C.Sl. *nes-enū* 'borne' (*-eno-*). In these forms it is very far from certain that the suffix is *-no-* (stem **dōno-* = $\sqrt{dō}$ + suffix *-no-*, and so forth), since there is good reason for believing that the initial vowel of the suffix was contracted with the vowel of the root in protoethnic Indo-Germanic, in just the same way as, for instance, the 3. sing. conj. **dōti* (Skr. *ddti*) from **dō-e-ti* (see I § 115 p. 107). Now if we consider that it is just in tenses which have no thematic vowel that *-eno- -ono-* has firmly established itself as a participial suffix (Skr. *bibhid-anā-s* Goth. *bit-an-s* from \sqrt{bheid} 'split, bite', Goth. *fulg-in-s* 'hidden', O.C.Sl. *nes-enū* 'borne', Skr. *dviṣ-anā-s* beside the indic. *dviṣ-ṭē*, *dviṣ-* 'hate', Avest. *yn-āna-* beside the indic. *yn-ē*, *jan-* 'slay') it will be seen that for our purpose it

1) Schnorr von Carolsfeld, Das lat. Suffix *ānus*, Archiv f. lat. Lexicogr. I 177 ff.

is absolutely necessary to regard -eno- -ono- as a simple indivisible suffix. From its usage it is clear that this suffix is very closely related to -no- -yno-; and there is nothing to prevent our assuming that -no- -yno- are the weak-grade forms corresponding to -eno- -ono-, just as we have side by side -mno- (-myno-?), -meno- -mono- (§ 71) and -tro- -tyro-, -tero- -toro- (§ 75). The assumption of this ablaut-relation, i. e. that -no- arose from -eno- (-ono-), would still hold good even though we regarded -eno- as ultimately divisible into two elements (-e-, -o- + -no-), cp. *rudyt- the weak-grade form beside *rudo-nt- (§ 125).

This *n*-suffix formed chiefly verbal nouns, partly adjectives and partly substantives; the latter especially in the neuter and feminine, with abstract meaning (see § 158).

The suffix -(e)no- is characterised by its fertility as a participial and infinitival suffix in several languages, and some of the groups of adjectives and participles which it formed were very extensive.

As a secondary suffix it did not spread far until the Indo-Germanic languages had begun their separate development, and then only in a few branches.

Remark. Sometimes it is not easy to distinguish whether in any particular word we have the suffix -(e)no- or an *en*-stem extended by the suffix -o-, i. e. an example of transference into the *o*-declension. The latter is undoubtedly the case e. g. in Skr. *dān-a-s* beside *dān-* m. 'stone', *pūṣān-a-s* beside *pūṣān-* name of a deity (§ 60 p. 112), Gr. *ἰλλός* 'young stag' for **ilv-o-*; beside O.C.Sl. *jelen-* 'stag', *ἀσόν-η* 'whetstone' beside Skr. *dān-*, Lat. *pullu-s* for **puln-o-s* beside Goth. *fulin-* 'foal', Lith. *ješn-os* pl. 'liver' beside Skr. *yakn-*. On the other hand it is doubtful whether Lat. *regnu-m* contains the suffix -no-, or is an *en*-stem which has passed over to the *o*-declension, and is therefore identical with Skr. *rājān-* 'government, regimen'. Cp. § 71 Rem., § 94 Rem.

§ 66. 1. The Suffix in the form -no- -yno-. The form -no- is found especially in verbal adjectives, which, like those in -to- (§ 79), were made from the verbal stem (not from a particular tense-stem). In Sanskrit these adjectives formed a fairly large class of participles by the side of the *to*- participles and of similar character. They are chiefly passive in meaning.

Besides these there are numerous substantives, many of which can be shown to have existed in the protoethnic language, of different genders and generally abstract in meaning.

The form *-yno-* has on the whole the same value as *-no-*. Yet it must be observed that not *-no-*, but only *-yno-* appears to occur as the medial participial suffix of non-thematic present forms.

The nouns formed with *-no-* *-yno-*, when used as adjectives (participles), have almost always the weak grade of ablaut in the root-syllable (the suffix bearing the accent, e. g. **p[̥]-nó-* 'filled' \checkmark *pel-*, Skr. *pūr-ṇá-*), but as substantives more commonly the strong grade form (e. g. **goi-nā* 'requit', \checkmark *gei-*, Gr. *ποι-νῆ*). Differences like **sup-no-* **syep-no-* **syop-no-* 'sleep' are indications that the strength of the root-syllable varied within the case-system of the same word.

Idg. **p[̥]-nó-* **p[̥]-nó-* 'filled, full', from \checkmark *pel-* 'fill': Skr. *pūrṇá-s* Avest. *per'na-* Gr. perhaps *πολλοί* 'many' (see I § 306 p. 242), O.Ir. *lān*, Goth. *fulls* pr. Germ. **fulna-z*, Lith. *pl̃na-s* O.C.Sl. *pl̃nū*; cp. Skr. *pūr-tá-s* Lith. *pil-ta-s* 'filled'. **plē-nó-* 'filled' from *plē-* 'to fill': Skr. *prāṇá-s* Lat. *plēnu-s*; cp. Skr. *prā-tá-s* Lat. *im-pletus* 'filled'. Skr. *ánna-m* 'food' for **ad-na-* (I § 477, p. 352) Gr. *ἔδ-αρό-ς* 'catable' *ἔδ-αρό-ν* 'food' (with *-yno-*, see below), \checkmark *ed-* 'eat'. Avest. *per'na-* f. Goth. *fullō* f. (which has passed over to the *n*-declension) 'fullness'. **goi-nā-* f. 'requit' from \checkmark *gei-* (Skr. *cay-* Gr. *τε-*): Avest. *kaēna-* 'punishment', Gr. *ποινῆ* 'requit, punishment, reward', O.C.Sl. *cēna* 'price'. **sup-no-* **syep-no-* *syop-no-* m. 'sleep, dream': Skr. *svāpna-s*, Arm. *ḥun* (**suop-no-*, I § 162 p. 145, § 201 p. 169) Gr. *ὑπνο-ς*, Lat. *somnu-s* (probably **syep-no-*, I § 172 p. 152) O.Ir. *suan* O.Cymr. *hun* (cp. I § 339 Rem. p. 269), O.Icel. *svæfn*, Lith. *sūpna-s* O.C.Sl. *sūnū*.

**leuq-sno-* or **louq-sno-* 'shining': Avest. *raoxšna-* 'shining', Lat. *lūna* O.Lat. inser. *losna* for **loucsna*, O.Ir. *luan* 'moon', Pruss. *lauznos* pl. 'stars', compared with *leuq-s-* in Skr. *rukṣá-* 'shining', Lat. *illūstri-s* for **in-louq-s-tri-s*, A.S. *līxan* *līxan* 'give light' for **liuhs-jan*, from \checkmark *leuq-*; on the other hand, without *-s-*, O.Sax. *log-na* (*o* probably short) 'flame'. Words

of this kind with *-s-* gave rise to a form *-sno-*, regarded as a single suffix, which occurs in a few words; see below. Cp. *-s-ni-* § 94.

Pres. medio-pass. part. with *-yno-* (beside this is found *-ono-*, cp. § 67). **kei-yno-* 'lying' beside the indic. Skr. *śē-tē* Gr. *κεῖ-ται*: Avest. *say-ana-* 'lying' (Skr. *upari-śayanā-m* 'resting-place'), Gr. *Ὠ-κεανός* 'he who surrounds' (cp. Skr. *ā-śētē*; von Fierlinger, Kuhn's Ztschr. XXVII 477). Gr. *ἐθ-αρός* 'eatable' beside the indic. Skr. *ād-mi*; *ἱαρός* 'dress, cloak' for **fεσ-aro-* beside the indic. Skr. *vās-tē*.

Remark. This view of Ar. *-ana-* and of Gr. *-aro-*, so far as they have the same meaning as *-māna-* *-mna-* and *-mevo-*, cannot be called certain. As my pupil Herr H. Hirt reminds me, they may be regarded as having arisen from **yno-*, just as the participial Ar. *-āna-* can be referred to *-yno-*; see § 67, b. Rem. p. 152.

The meaning of *-no-* is not clear in **oi-no-s* 'unus': Gr. *οἶός οἱ νή* 'acc on a die', Lat. *oino-s oenu-s unu-s* O.Ir. *oen* Goth. *ains* Lith. *vėna-s* O.C.Sl. *inū*.

Aryan. Skr. *ā-nā-* 'where something is lacking, defective' Avest. *āna-* 'empty' from *√ey-* (Gr. *εὔ-μ-ς* 'needing, bereft'). Skr. *kṣi-nā-* 'diminished, vanished, waning': compare perhaps Gr. *φθι-νό-καρπος* 'with fruit vanishing or vanished' (cp. Fick, Wörterb. I³ 236, Osthoff Morph. Unt. IV 115). Skr. *dīrṇā-* 'torn to pieces, scattered, beheaded' Avest. *dar'-nā-* f. 'cleft, ravine': O.H.G. *zorn* A.S. *torn* n. 'indignation, anger', properly 'a torn or rent condition of the temper' (ground-form **dγ-no-m*). Skr. *dī-nā-* 'bound' (*da-* 'bind'), *bhug-nā-* 'bent' (*bhuj-* 'bend'), *bhinnā-* 'split' for **bhid-na-* (*bhid-* 'split'); thus it frequently appears as a living participial suffix. Skr. *uṣ-nā-* 'hot', also subst. m. and n. as well as f. (*uṣ-nā-*) 'heat'. Skr. *bradh-nā-s* 'pale', O.C.Sl. *bronū* 'whitish' for **brod-nū*. Skr. *tūna-s* 'sheath, quiver', ground-form **tj-no-s*, *√tel-* (Gr. *τελαμών* etc.) Skr. *yaj-ñā-* Avest. *yas-na-* m. 'worship, sacrifice', *√iaḡ-* 'to honour' (for the *-s-* of the Avest. form see I § 403 Rem. p. 298): Gr. *ἁγ-ρός* 'revered, hallowed, pure'. Skr. *praś-nā-* Avest. *fraś-na-* m. 'question', *√prek-*. Skr. *sthānā-* 'post, pillar' for **sthūr-ṇa-*, Avest. *stānā-* in *hazamrō-stāna-* 'with 1000 pillars', ground-form **stj-nā-*: Gr. *στηλή*, see p. 143.

With -s- between root and suffix: Skr. *tik-ṣṇá-* 'sharp' (cp. *tig-má-* 'sharp'), *kṛt-śná-* 'whole, complete', and other examples.

The existence of Aryan -ana- = -ṇna- is hard to verify, because of its coincidence in form with orig. -eno-. Besides examples like Ved. *yaj-aná-* beside *yaj-ná-* (I § 227 p. 193 ff.) and the above mentioned medio-pass. pres. part. (cp. also Avest. *aoj-ana-* beside impf. indic. *aox-ta*, *hu-nv-ana-* beside pres. indic. *hu-nū-itē* and others), we should perhaps add here Sanskrit oxytone adjectives like *krōṣ-aná-* 'screaming', *rōc-aná-* 'shining' *jar-aná-* 'perishable', with the abstract substantives *śvēt-aná-* 'the dawning' *jaranā-* 'old age' (cp. Gr. *στεφανός* and *στεγ-άνη*); the palatal sound instead of the guttural in *rōc-aná-* and other words was taken from such forms as *rōcatē* (see I § 448 Rem. p. 333). Cp. -ani- = -ṇni- § 95, and -anu- = -ṇnu- § 106.

It is only occasionally used as a secondary suffix. Skr. *strī-ṇa-* 'female' from *strī-* 'woman', *pauś-ná-* 'male' from *pauś-* 'man', *purā-ná-* 'former, old' from *purā* adv. 'formerly'. Here also come *vadhasná-m* 'deadly weapon' beside *vadhá-s* and *vádhar*, of similar meaning, and *karásna-s* 'forearm' (cp. *kará-s* 'hand'), if they contain -as-stems, cp. Goth. *hláivasnōs* pl. f. 'grave' beside neut. *hláiv* with similar meaning; the Sanskrit ending is in most cases explained as -a-sna-.

Armenian. *kun* 'sleep' from **suop-no-*, see p. 140 above. *gi-n*, gen. *g-no-y*, 'cost' from **ues-no-* or **uēs-no-*: Skr. *vas-ná-s* Gr. *ῥνο-ς ῥνή* 'sale-price, value' for **Fwoσ-vo- -vá-*, Lat. *vēnu-m* for **ves-no-* or **vēs-no-*. Perhaps we should add *vasn* 'on account of' (beside O.Pers. *vaš-na-* and Avest. *vas-na-* 'will, favour', √ *uek-*; the Avest. form is for **vašna-* through the influence of the pres. *vas'mi*), and the derivative *un-ain* 'empty' (beside Skr. *ā-na-*; Armen. *u-* for Idg. *eu-*, cp. Gr. *εὖ-n-ς*).

Greek. *στυγ-ρός* 'hated'. *σπαρ-ρός* 'scattered, rare, thin', beside *σπείρω*. *σεμνός* 'revered' for **σεβ-ρός*, √ *tjeg-* (I § 492 p. 362). *στεγ-ρός* 'covered, covering'. *σμερδ-ρός* 'terrible'. *περκ-ρός* 'sprinkled, motley, dark': O.H.G. *forhana* f. 'trout', ground-form **prk-nā*. *δά-ρος* n. 'loan' is no doubt based upon a form

**dō-no-* from √*dō-* 'give' (cp. § 132). *λάγ-νο-ς* 'lewd, wanton': cp. Lat. *lēna* for **lēx-nā* (beside *laxu-s*). *λίχ-νο-ς* 'dainty, greedy': cp. O.H.G. *lecchōn* 'lick', for pr. Germ. **likkōna-n* from stem **liχ-na-* I § 538 p. 394. *φοῦ-νο-ς* *φοῦ-νη* 'toad': O.H.G. *brū-n* 'brown'. *θῦ-νο-ς* 'throng, battle': Skr. *dhū-na-s* 'violently moved'. *οἶ-νο-ς* 'wine' *οἶ-νη* 'vine' *οἶ-νο-ν* 'vine-leaf, vine-branch': Lat. *vī-nu-s* *vī-nu-m* and the derivative Armen. *gi-n-i* 'wine' (§ 63 p. 127), from √*uei-* 'to wind', and hence we should place in the same group Russ. *vén* 'wreath' and the derivative O.C.Sl. *vén-ici* Lith. *vain-ika-s* 'wreath'. *πύρ-αυρο-ς* *-αυρο-ν* 'that with which fire is held, fire-tongs, coal-pan' for **-αυσ-ρο-* (see Osthoff, Zur Gesch. d. Perf. 488), to which add possibly *κερ-αννό-ς* 'lightning flash'. *τέκ-νο-ν* 'child' (that which is begotten, from *τεκεῖν*): O.H.G. *degan* m. 'boy, servant' pr. Germ. **þez-nā-s*. *στέρ-νο-ν* 'breast': Skr. *stīr-nā-* 'outspread', cp. also O.H.G. *stirna* f. 'star' ground-form **ster-n-ia*, √*ster-* 'spread'. **δεμ-νο-*, whence *δέμνιο-ν* 'bedstead', as being a 'place built' for a bed, from √*dem-*. *κλί-νη* 'couch, bed': O.H.G. *li-na* *le-na* 'support', √*klei-* 'accline'. *στήλη* Lesb. *στάλα* 'sepulchral pillar' for **στάλ-νā* ground-form **stl-na-* (by-form *στήλλη* = **σταλν-ι-ā*?): Skr. *sthūnā* 'post, pillar' see above p. 141. *ζώνη* 'girdle' for **ζωσ-νā*, √*jōs-*. *φερ-νή* 'dowry' *πόρ-νη* 'whore' beside *πέρνημι* 'I sell', ground-form **por-nā-* or **př-nā-*.

-ανο- = *-ηνο-*. There are a considerable number of participial words besides those given above on p. 140. *στεγ-ανό-ς* beside *στεγ-νό-ς*. *πιθ-ανό-ς* 'easily persuaded, persuasive'. *στέφ-ανο-ς* *-άνη* 'wreathing, wreath'. *χόδ-ανο-ς* 'buttocks' (from *χέζ-ω*). *δρέπ-ανο-ν* *-άνη* 'sickle'. *όχ-ανο-ν* *-άνη* 'shield handle' (from *έχω*). *θήγ-ανο-ν* *-άνη* 'whetstone'. *σκέπ-ανο-ν* 'covering' (beside *σκεπ-ανό-ς*). *κόπ-ανο-ν* 'pestle, hatchet'. *έρκ-άνη* *όρκ-άνη* 'enclosure'.

As a secondary suffix it is not uncommon:

First should be mentioned the words in *-εσ-νο-* (Lesb. *-εννο-*, Ion. Att. *-εινο-*, Dor. *-ηνο-*) and *-ασ-νο-* (Lesb. *-αννο-*, Ion. Att. *-ηνο-*, Dor. *-āνο-*). *αλγεινό-ς* 'paining, painful' from *άλγος* n. 'pain'. *φαινό-ς* 'shining' from *φάος* n. 'light', etc. Homeric (Lesb.) *ερανό-ς* 'lovely' beside *έρως* (see Solmsen, Kuhn's Ztschr.

XXIX 70. 109). *σελήνη* 'moon' (Lesb. *σελάννᾱ*) from *σέλας* n. 'brightness'. In the oldest adjectives of this sort, which were participles of denominative verbs, -no- may have been primary; compare *ποθινό-ς* *κοτεινό-ς* with *ποθέσαι* *κοτέσαι* (**ποθεσ-σαι* **κοτεσ-σαι*) and *ἐρασ-τό-ς* beside *ἐραννό-ς*.

Further, under this head come adjectives of time like *ἐαρινό-ς* *ἡαρινό-ς* (misspelt *εἰαρινό-ς*) 'vernus', *ἡμερινό-ς* 'daily' *νυκτερινό-ς* 'nocturnus' *περσινό-ς* 'from last year, a year old'. These appear to have been formed from locatives, *ἔαρι*, *πέρουσι* (cp. also *ἡμαρ*, *νύκτωρ*). Then -ino- broke off and became an independent suffix, hence *δειλ-ινό-ς* 'of the evening', and the like. For analogous adjectives in Italic, see below.

With -ano- as a secondary suffix: *κόπε-ανο-ν* 'stool' (*κόπεο-ς*), *ἔδρ-ανο-ν* 'seat' (*ἔδρᾱ*) and others. Was the suffix -dano- taken from *οὐτιδανό-ς* 'useless' = *οὐ-τιδ-ανό-ς* (**τιδ* = Lat. *quid*)? Cp. -dapo-ς, taken from *ποδ-από-ς* and the like (§ 16 p. 32).

Italic. Lat. *plē-nu-s* Umbr. *plener* 'plenis': Skr. *prā-ṇa-s*, see p. 140 above. Lat. *cānu-s* for **cas-no-s*, Osc. Pelign. *casnar* 'senex' (extended by an r-suffix). Lat. *vī-nu-s -nu-m*, Umbr. *vinu* 'vinum' Volsc. *vinu* abl. 'vino'. Lat. *urna* for **urc-nā*, Umbr. *urnasier* 'urnariis, feriis'. Lat. *fānu-m* for **fas-no-m*, Umbr. *fesnaf-e* fem. pl. 'in templum', Osc. *fīsnam* *fīsnam* fem. acc. 'templum', Pelign. *fesn.* (abbreviated) 'templum', beside Lat. *fēs-tu-s fēr-iae*, in the *ē*-series of Ablaut.

Lat. *dīgnu-s* as compared with *deceit*, for **dec-no-s* (I § 65 p. 53, § 500 p. 366), or with O.Icel. *tīgenn* 'distinguished' *tīgn* f. 'distinguished rank', for **dic-no-s* (✓*deifē-* 'show') *agnu-s*: Gr. *ἀμνό-ς* 'lamb' for **āβ-no-ς*, O.Ir. *uan* Mod.Cymr. *oen* 'lamb' (I § 428 p. 315, § 437 p. 325), also O.C.Sl. **jagnū*, implied by the formation *jagne* 'lamb'. *pūgnu-s*, *pūgnāre*, beside Gr. *πυγ-μή* 'fist, fight with fists'. *grā-nu-m* 'grain, kernel', ground-form **gṛ-no-m*: Skr. *jīr-ṇā-* 'ground, crumbled', Goth. *kaūr-n* n. 'grain', O.C.Sl. *zrī-no* 'grain, kernel, berry', compare also O.H.G. *kerno* O.Icel. *kjarne* m. 'kernel', formed from the *ē* grade of the root (*gēr-*). *līgnu-m* is no doubt to be compared with *legō*; *tīgnu-m*: cp. Gr. *τέχ-νη* 'power of production, art, skill'. *lāna* for **ulā-nā*, ground-form

**ul-nā*: Skr. *ūr-ṇā* 'wool' Gr. *οὔλο-ς* 'curly' for *φολ-vo-ς*, Goth. *oulla* 'wool' pr. Germ. **ul-nō*, Lith. *vil-na* 'fibre of wool' O.C.Sl. *vlū-na* 'wool'. The same suffix appears to be contained, though less obviously, in *fundu-s*: Skr. *budh-nā-s* 'ground' (I § 221 p. 189).

With -s-: Lat. *annu-s* for **at-sno-s*: cp. Goth. *aþn*; *penna* O.Lat. *pesna* for **pet-snā*, √ *pet-* 'fly' 1), and other examples.

Lat. -ino- unaccented = -yno-. It is of course hard to say what forms are to be classed here, since unaccented -ino- may equally well represent Idg. -yno-, -eno- or -ono-. The words we have to deal with are such as *dom-inu-s pag-ina sarc-ina*, probably also *verna* for **ves-inā* (√ *ves-* 'live').

As a secondary suffix it is not uncommon:

Lat. *aēnu-s* for **aēs-no-*, Umbr. *ahe-s-nēs* 'aenis', beside Lat. *aes*, *aeris*, Skr. *āyas-* n. 'metal, iron'. Lat. *ilignu-s* for *ilec-no-* from *ilex*, *salignu-s* from *salix* (the ending was referred by popular etymology to √ *gen-*, cp. *abiēgnu-s*, *fabāginu-s* and so forth), *acer-nu-s* from *acer*, *ebur-nu-s* from *ebur*; the final vowel of the stem has been lost in *pōpulnu-s* from *pōpulu-s*, *quernu-s* for **querc-nu-s* from *quercu-s* etc. Besides these we have *pater-nu-s*, *māter-nu-s*; *alter-nu-s*, *infer-nu-s*, *exter-nu-s*. Stems in -ā seem to have given rise to -ānu-s: *silvānu-s* (*silva*) *insulānu-s* (*insula*) *Capuānu-s* (*Capua*); hence in other local adjectives, *urbanu-s*, *cismontānu-s* *Rhēnānu-s* etc.

vērnu-s, *nocturnu-s*, *hibernu-s*, *vesperna* and the like are parallel to Gr. *ἐαρινό-ς*, *νυκτερινό-ς*, *χειμερινό-ς*, *ἐσπερινό-ς* (see

1) *Penna* must be distinguished from *pinna*. The latter, with *pannus* Gr. *πῆνο-ς* (common ground-form **pḥ-no-*, see I § 253 p. 206 f.) belongs to A.S. *finn* Mod.H.G. *finne* 'fin', a Germanic word which Müllenhoff (*Altertumskunde* II 54) connects in an interesting way with the name of the *Fenni*, although he is certainly wrong in taking a ground-form **pet-nā* as his starting-point. The words most nearly akin to it are O.H.G. *spannan* 'to stretch', Goth. *fana* 'cloth, rag' (Mod.H.G. *fahne*), O.C.Sl. *pīnq* 'I stretch, hang' *o-pona* 'curtain'. On √ *spen-* and *pen-*, see I § 589 p. 445 f. The bird's wing and the fin therefore received their name as being something 'out-stretched'.

p. 144), and perhaps in Latin also *-no-* was added to the locative in *-i*, and this vowel afterwards lost¹).

Umbr.-Osc. **kom-no-m* 'rò κοινόν' from *kom* 'cum', Umbr. *kumne* loc. 'in comitio' Osc. *comenei* loc. 'in comitio' *comono* pl. 'comitia' (for the Oscan anaptyxis cp. I § 627, p. 471). Osc. *amnod* 'circuitu' from *am-* 'amb-'. Lat. *prōnu-s* no doubt for **prōd-no-*, compare *prō(d)*.

Lastly, there are the distributive numerals derived from adverbs, like Lat. *hīnī* from **his-no-*, *trīnī* from **tris-no-*, *ter-nī*, *quater-nī*.

Old Irish. *la-n* 'full': Skr. *pūr-ná-s* etc., see p. 140. *slán* 'whole, sound, complete, full' may be for **sl̥-no-*, as Lat. *sal-vo-s* for **sl̥-uo-*. *cloe-n* 'awry, unjust, bad': cp. Goth. *hlái-n-s* 'hill', √ *klej-* 'to lean', whence also Gr. *κλί-νῃ* O.H.G. *li-na* (p. 143). *suan* O.Cymr. *hun* sleep: Skr. *sváp-na-s* etc., see p. 140. *uan* Mod.Cymr. *oen* 'lamb': Gr. *ᾠνό-ς* etc., see p. 144. *domun* m. 'world', Gallic *Dubno-rīx* 'world-king': with this should probably be compared *fu-domain* 'deep' Mod.Cymr. *dwfn* 'deep' (I § 520 p. 378): O.C.Sl. *dūno* n. 'ground' for **dūb-no-*, Lith. *dūgna-s* 'ground' (with *g* for *b*, I § 346 p. 271). *ēn* m. 'bird' (I § 518 p. 377 f.), O.Bret. *etn* 'bird': cp. Lat. *penna* for **pet-sna* p. 145, √ *pet-* 'fly'. *fēn* m. 'waggon' (I § 526 p. 381): O.Icel. *vagn* m. 'waggon', √ *uegh-* 'vehere'. *dū-n* n. 'walled stronghold', Gall. *-dūnū-m* in place-names like *Novio-dūnu-m* 'New-castle, New-town': O.Icel. *tū-n* n. O.H.G. *zū-n* m. 'fence, hedge'. *rū-n* f. 'secret': Goth. O.H.G. *rū-na* f. 'secret', with which, in a different grade of Ablaut, cp. O.Icel. *rau-n* f. 'attempt, proof, test, experience'. This suffix, though less clearly discernible, appears to be contained in *bond bonn* 'solea': Skr. *budh-ná-s* 'ground' (I § 221 p. 189).

Pr.Kelt. *-ano-* = *-no-*. Since this, if unaccented, became in Irish identical with orig. *-ono-*, it is hard to say which of the examples should be classed here. Perhaps *lethan* O.Cymr.

1) Does *hibernu-s* stand for **hībrino-s*, as *in-certu-s* for **in-crito-s* (I § 33 p. 33 f.)? The word is undoubtedly connected with *hiems*, but the *b* has never been explained.

litan 'broad': cp. Gr. *πλάτανο-ς* 'plane' (named after its broad leaves, compare *πλατύ-ς*). Infinitive nouns like *blegon* m. 'milking' may also perhaps be referred to *-yno-*.

As a secondary suffix it is found in Gall. *Arebrig-nu-s* (*pagus*) 'lying on a hill' compared with *Arebrigiū-m*, beside O.Ir. *bri*, gen. *breg*, 'hill'. Also no doubt in Keltic words in *-er-no-ar-no-* (Zeuss-Ebel G.C. 774), as Gall. *Tigerno-*, *isarno-* 'iron', O.Ir. *iarn* O.Bret. *hearn* (I § 576 p. 431), whence perhaps were borrowed Goth. *eisarn* O.H.G. *isarn* 'iron' (the suffix in O.H.G. *diorna* 'wench' Goth. *viduairna* 'one bereaved' etc. cannot be held to prove that this is a real Germanic word.)

Germanic. Goth. *fulls* O.H.G. *vol* (gen. *volles*) 'full', pr. Germ. **ful-na-z*: Skr. *pūr-ná-s* etc. see above p. 140. Goth. *alls* O.H.G. *al* (gen. *alles*) 'whole, all' (beside *ala-*) ground-form **al-no-s*, beside *alan* 'to grow up, increase' (cp. Gr. *πᾶς* 'whole, all' compared with Skr. *śvā-* 'swell out', § 126, and Lat. *omni-s* for **op-ni-s* beside *ops*, § 95); Osc. *allo* is the same word if it is to be translated 'tota' and not 'alia' (Fick, Bezzenberger's Beitr. I 170; Danielsson, Pauli's Altital. Stud. III 177 f.). Goth. *ib-n-s* O.H.G. *eban* 'flat, even'. O.H.G. *scī-n* 'visible, shining', as subst. m. 'visibility, brightness, sheen'. Goth. *us-lūk-n-s* 'opened, open'. Goth. *faihu-gair-n-s* 'avaricious' O.Icel. *gjarn* 'greedy'. O.H.G. *mei-n* 'false, treacherous', as subst. 'falsehood, wickedness'; Lith. *mai-na-s* 'barter' O.C.Sl. *mě-na* 'change, exchange', common ground-form **moj-no- nā-*, cp. **moj-ni-* § 95. O.H.G. *loc* (pl. *loccha*) O.Icel. *lokkr* m. 'lock' pr. Germ. **lug-ná-s* (I § 534 p. 391); Lith. *lug-na-s* 'bent'. O.H.G. *sker-n* m. n. 'jest'. Goth. *aþ-n* n. 'year': cp. Lat. *annu-s* for **at-sno-* p. 145. Goth. *haúr-n* O.H.G. *horn* pr. Norse *horna* n. 'horn': Gall. *κάρνο-ν* acc. 'trumpet' (Hesych.) beside Lat. *cornu* (also *cornu-*, § 106). Goth. *bar-n* 'child' ('that which is born'): Lith. *bér-na-s* 'servant', dimin. *bernėli-s* 'little boy' (cp. a similar change of meaning in Gr. *τέκνο-ν*: O.H.G. *degan*). Goth. *láu-n* O.H.G. *lō-n* n. 'wages', beside Gr. *ἀπο-λαύω* 'enjoy' O.C.Sl. *lovŭ* 'prey, booty'. O.H.G. *zeihhan* O.Sax. *tēkan* n. 'token' pr. Germ. **taik-na-* (compare Goth. *táikns* f., stem *táik-ni-*, 'token'), from

✓ *deik-* *deiġ-* (Goth. *ga-teihan* 'point out'). O.H.G. *feihhan* O.Sax. *fekan* n. 'deceit' pr. Germ. **faiġk-na-*, from ✓ *peik-* *peiġ-* (Goth. *fáih* n. 'deceit'). O.H.G. *loug-na* O.Icel. *lau-n* f., in O.H.G. also *lougan* (subst. m.) 'giving the lie, denying': the root has a different grade of ablaut in Goth. *liug-n* n. 'lie'. O.Sax. *log-na* (o probably short) 'flame': cp. Lat. *lūna* for **lowesnā* etc. p. 140.

Germ. *-uno-* = *-yno-* cannot be identified with certainty.

In secondary use the suffix only occurs in Goth. *jái-n-s* 'that, yonder' from loc. **ioi* (beside it stands a pr. Germ. **yi-na-* from the locative form **iei* in A.S. *bē-zen* m. 'both' according to Holt-hausen, Paul Braune's Beitr. XIII 372. 590), unless Goth. *hlái-vasnōs* pl. f. 'grave' from *hláiv* n. 'grave' and *arhvazna* f. 'arrow' beside A.S. *earh* n. 'arrow' are to be classed here, as derivatives from *es*-stems, cp. Skr. *vadhasná-* p. 142.

Balto-Slavonic. Lith. *piġ-na-s* O.C.Sl. *plū-nū* 'full': Skr. *pūr-ṇā-s* etc., see p. 140 above. A few other adjectives of this kind occur in Baltic, as Lith. *kil-na-s* 'lofty' beside *kėl-ti* 'to raise' (*káġna-s* 'hill' should perhaps be divided *kaġ-n-a*, see the Author in Morph. Unt. II 173), *siġp-na-s* 'weak, powerless' beside *siġp-ti* 'to grow weak'; *lūd-na-s* 'sad' beside *lūsti* 'to grow sad', Lett. *wiġ-n-s* 'glimmering' beside *wiġ-ēt* 'to glimmer', Lett. *tāis-n-s* 'straight, right' beside Lith. *taisġti* 'to direct'. Lith. *dē-na* f. adj. of cows 'in calf': Skr. *dhū-nā* 'milch cow', from ✓ *dhēi-* 'suckle' (I § 150 p. 136).

Lith. *peġ-na-s* 'merit' O.C.Sl. *plē-nū* 'booty': Skr. *paṇa-s* 'wager, stipulated wage' for **par-na* (I § 259 p. 211 f.). Lith. *vaĩ-na-s* 'raven' *vār-na* 'crow' O.C.Sl. *ora-nū* 'black, raven' *vra-na* 'crow', possibly to be compared with Skr. *vār-ṇa-s* 'colour'. There seems to be some connexion between the roots of Lith. *szē-na-s* O.C.Sl. *sē-no* 'hay' (the Lith. word was no doubt originally neuter) and Skr. *śyā-na-s* 'grown dry' *śi-na-s* 'curdled'. Lith. *szal-nā* O.C.Sl. *sla-na* 'rime', beside Lith. *szāl-ta-s* Skr. *śt-śir-a-s* adj. 'cold'. Pruss. *spoay-no* f. 'foam' or 'scum' O.C.Sl. *pē-na* 'foam': Skr. *phē-na-s* 'foam', cp. also Lat. *spūma* for **spoĩ-mā* (for the initial, see I § 599 p. 445 f.)

With *-s-*; Lith. *lėp-s-nà* 'flame', *varsnà* 'length of a furrow' for **vart-snà* (cp. *varsma-s* 'length of a furrow' for **vart-sma-*).

Lith. *spař-na-s* 'wing': Skr. *par-nà-m* 'wing', $\sqrt{sper-}$ 'strike away, push off, jerk'. *skut-nà* 'shaved place'. *žar-nà* 'intestine': O.Icel. *garnar* pl. 'intestinae'. *dai-nà* 'folk-song': Avest. *daē-nā* f. 'law, teaching, faith'.

O.C.Sl. *trī-nū* 'thorn': Skr. *tī-na-m* 'grass-stalk', Germ. with *-nu-* Goth. *þaúr-nu-s* 'thorn'. *synū sunū* 'tower' no doubt stands for pr. Slav. **sūp-no- *soyp-no-* 'that which is piled up', cp. *sūpa* 'I pile' *sūpū* 'heap'. *ėlėnū* 'limb' for **ėl-no-*. *trės-nū* 'fimbria' for **trėsk-nū*, beside *trėskū* 'noise' *trėsnąti* 'to strike'. *stīg-no* 'shank'. *ru-no* 'fleece', beside *rūv-q* 'ewello'. *sukno* 'woollen garment', beside *sukati* 'to twist'. *vėno* 'dowry' for **vėd-no-*: Gr. *ἱδ-να ἑδ-να* 'bridal gifts', $\sqrt{uedh-}$ *ued-* 'lead, lead home' (I § 469, 8 p. 346 f.). *plū-na* 'wave': O.H.G. *wellā* 'wave' ground-form **uel-nā*, with *-ni-* Lith. *vil-ni-s* 'wave'. *sli-na* 'spittle', beside Mid.H.G. A.S. *sli-m* 'slime'. *strana* 'side, region' for pr. Slav. **stor-nā*, i. e. Idg. **stīr-nā* (Skr. *stīr-ṇā-* 'outspread') or Idg. **stor-nā*, $\sqrt{ster-}$ 'spread out'. *stė-na* 'wall': Goth. *stāi-n-s* O.H.G. *stei-n* m. 'stone'.

Lith. *-ina-* Slav. *-īno-* = *-yno-* may perhaps be traced in Lith. *kūp-ina-s* 'heaped up', *tėk-ina-s* 'running', O.C.Sl. *do-kos-īnū* 'that can be touched or held' *do-stiž-īnū* 'that can be reached', etc.

-no- in secondary use. Lith. *jáu-na-s* O.C.Sl. *ju-nū* 'young from *jāu ju* 'already', just like Skr. *nāva-s* Gr. *νέφο-ς* beside Skr. *nū nū* etc. 'now': from the same adverb come also O.C.Sl. *ju-tro u-tro* 'morning', see § 75. It is doubtful how far, if at all, the common secondary suffix Lith. *-ina-* Slav. *-īno-* represents Idg. *-yno-*.

§ 67. 2. In the form *-eno-* *-ono-*. This is almost entirely primary, and it occurs chiefly in participles and abstract nouns. It is used to form classes of words with special meanings, most commonly in Aryan, Germanic and Slavonic. *-eno-* is in active use as a participial suffix in A.S., Norse (O.Icel)

and Slavonic, as an abstract nominal suffix in Aryan; *-ono-* is a participial suffix in Aryan, Gothic and High German, and an abstract nominal suffix (infin.) in Germanic.

The suffix bears the accent where the root-syllable has the weak grade of ablaut; e. g. Skr. *vavṛt-ánā-s* O.H.G. *gi-wort-an* (I § 530 p. 387).

a. *-eno-* added to stems ending in a consonant:

Indo-Germanic. **uegh-eno-*, √ *uegh-* 'vhere': Skr. *vah-ana-s* 'carrying' *vāh-ana-m* 'act of carrying', O.C.Sl. *vez-enū* 'carried'. **ed-eno-*, √ *ed-* 'eat': Skr. *ād-ana-m* 'food, fodder', O.Icel. *et-enn* 'eaten'. **uert-eno-*, √ *uert-* 'vertere': Skr. *vart-ana-s* 'setting in motion' *vārt-ana-m* 'a turning', O.C.Sl. *vrét-eno* n. 'spindle'.

Aryan. *cét-ana-s* 'visible', *ján-ana-s* 'begetter', *táp-ana-s* 'afflicting'; O.Pers. *drauj-ana-* 'lying'. Skr. *cét-ana-m* 'an appearing, appearance', *ján-ana-m* 'a begetting' and other substantives of the same kind. Avest. *hāv-ane-m* 'pressing, pressure': Skr. *sāv-ana-m*; O.Pers. *ham-ar-ana-m* 'encounter, fight', Ar. √ *ar-* 'go'. In Avestic we find the masc. *zav-ana-* 'call, summons'; contrast Skr. neut. *hāv-ana-m*.

Armenian. *jaune-m* 'I offer, dedicate' from the noun stem **jauno-*, which must stand for **jau-eno-* (Skr. *hāv-ana-m* 'offering'), or for **jau-ono-*.

Greek. Here perhaps should be classed Aeol. *φερένα* 'dowry' (*φερενα*, if it be the more correct reading, would at all events imply a form **φερένα*) beside *φερ-νη*; cp. Skr. *bhár-ana-*.

Remark. *-eno-* may perhaps be traced also in *ἐκείνο-* (with spurious diphthong) Dor. *εἴνο-*; 'that' for **(i)εκεί-eno-* from *ἐκεῖ* 'there'. Similarly Dor. *εἴνο-*, 'is iste, ille' would stand for **τεῖ-eno-* from *τεῖ*; or it might be analysed *εἴνο-* and derived from the instr. **τῇ* (cp. Goth. *jái-n-s* § 66 p. 148). It must be admitted that *-eno-* is not elsewhere used in this way as a secondary suffix.

Italic. *beno-* (in *bene*, *benīgnu-s*, *bellu-s* for **ben-lo-*), the by-form of *bono-*, *duono-*, should be classed here, if it stands for **du-eno-* and belongs to the root seen in Skr. *dúv-as* n. 'reverence, honour' and other words, so that the original meaning would be 'that which is held in honour, enjoys recognition'

(see Osthoff, *Morph. Unt.* IV 370 ff.). *dom-inu-s* (cp. Skr. *dām-ana-s* 'horse-tamer') and the like are ambiguous; see § 66 p. 145.

Old Irish. I know of no noun-formations which fall under this head.

Germanic. Goth. *fulg-in-s* 'hidden' (beside *filhan* 'to hide'), with the accent on the suffix in pr. Germ. (I § 530 p. 386). O.Icel. *tig-enn* 'distinguished' (✓ *deik-* 'show'). O.H.G. *sceff-in* 'sheriff', also *sceffino*, which has passed over to the *n*-declension; its original sense was no doubt 'arranger, orderer', compare O.H.G. *scaffen* 'to shape, set in order'. Add such participles as A.S. *bund-en* O.Icel. *bund-enn* 'bound'; cp. below, under *-ono-*. Goth. *eiḡ-in* O.H.G. *eig-in* n. 'property', the original sense being no doubt 'the having for one's own': Skr. *īś-ana-m* 'rule, control'. Goth. *rag-in* n. 'counsel, decree'; if it belongs to Skr. *rac-ana-m* 'an arranging, regulating', we must assume, as in the case of Goth. *fulg-ins*, that the suffix originally bore the accent. O.H.G. *lug-ina* f. 'lie', O.Sax. *drug-ina* f. 'treachery' *stul-ina* f. 'theft' *thec-ina* f. 'covering, roof'.

Balto-Slavonic. Here should be classed certain Lettic adjectives like *glud-en-s* 'smooth', (compare *glōd-en-s* 'blind-worm') beside *glaud-ēt* 'to stroke'; *slidd-en-s* 'smooth, where one slips', beside *slidd-ēt* 'to slip'; *slepp-en-s* 'secret' beside *slēp-t* 'to hide'. Were the Lithuanian verbs in *-enù*, like *gab-enù* 'I bring', developed from noun-stems of this kind, in the same way as *kruv-inù* 'I make bloody' from *krūv-ina-s* 'bloody'?

In Slavonic we have the common past part. pass. in *-enũ*, as *nes-enũ* 'carried' (from *nes-ti* 'to carry'), *za-bŭv-enũ* 'forgotten' (from *za-byti*; cp. Skr. *bhŭv-ana-m* 'being, thing, world'). The neut. *vrēt-eno*: Skr. *vārt-ana-m* has been already mentioned on p. 150.

b. *-ono-* added to stems ending in a consonant.

Idg. Pres. or aor. part.: **qr-ono-* from *ger-* 'make', beside indic. Skr. *ā-kar*: Skr. *kr-āpā-s* 'working, eager, busy' (frequent epithet of deities), Gr. *Κρ-όνο-ς*; **ḡus-ono-* from *ḡeus-* 'taste', beside the indic. Skr. *ā-juṣ-ran* (3. pl. med.): Skr. *juṣāpā-s* Goth.

kusan-s. Part. perf. **bhe-bhid-onó-s* from *bhejd-* 'split, bite' beside indic. Skr. *bibhéd-a* Goth. *bait*: Skr. *bibhid-aná-s* (Goth. *bit-an-s*).

Remark. This view of the Aryan forms with *-ana-* cannot be called certain. As a participial suffix of the middle we may (with Hirt) refer *-ana-* to **-ṇno-*, as the analogous *-ana-* to **-ṇno-* (see § 66 Rem. p. 141). The same *-ṇno-* may also be concealed in Gr. *πρῶτός* *πτηνός* 'fledged' (cp. Osthoff, zur Gesch. des Perf. 409) and the adjective *ἰαρός* (or is this for **ἡνός*?). In the Ar. *-ana-* it is possible that *-ṇno-* and *-ono-* have coalesced. The considerations urged by Fröhde (Bezenberger's Beitr. VII 322 ff.) against my comparison of *Κρόνος* with *krāná-s* are not sound. The different accent of *Κρόνος* is explained by the fact of its being a proper name. See what is said below in the Greek section on *κρόνος* etc.

Aryan. Pres. aor. med. pass. part. Skr. *duh-áná-s* *dúh-ána-s*, also *dúgh-ana-s*, the *gh* being phonetically regular (I § 445 p. 331, § 452. 453 p. 335), beside *dógdhi* 'he milks', *júhv-ana-s* beside *jú-hó-ti* 'he offers', *su-nv-áná-s* beside *su-nó-ti* 'he presses out', and so forth. Similarly Avest. *γν-ána-* beside *jáin-ti* 'he slays', and the like. Skr. *ís-áná-s* *ís-ána-s* 'having for one's own, possessing, ruler' Avest. *is-āna-* 'ruling, mighty' beside Skr. *īśe* *īś-tē* 'he possesses, rules': O.H.G. *eig-an* 'own', beside Goth. *aih* 'he has', cp. Skr. *ís-ana-m* Goth. *áiḡ-in* p. 151). Perf. med. pass. part. Skr. *riric-áná-s* beside *riréc-a* 'he let loose, removed, abandoned': O.H.G. *gi-liv-an*, *✓leiq-*; Avest. *vāver^e-z-ana-* beside indic. med. Gāthie *vāver^e-z-ōi* from *var^e-z-* (*uerḡ-*) 'work'.

It is an open question whether the denominative Skr. *-ana-*, as in *vásav-ana-s* 'possessing goods' from *vásu* n. 'goods', falls under this head (cp. Goth. *þiud-an-s*).

Armenian. Perhaps *jaune-m*, see above p. 150.

Greek. Besides *Κρόνος* (see above) we should probably class here *κλόνος* 'stir, turmoil', beside *κέλ-ομαι*, *θρόνος* 'seat, throne' from *dher-* 'hold, support', *χρόνος* 'time' orig. 'a limit of time which contains, span', beside *χρρ-*; for the meaning cp. *έμερος* 'a vomiting' beside *έμερός* 'vomited' and the like, § 158.¹⁾ Of

1) The accent may have been assimilated to that of *γόνος* *λόχος* *τεόνος* and similar words. Fröhde's assumption (in the article cited in the Remark above) that *θρόνος* *χρόνος* stand for **θρόνος* **χρόνος*, cannot be justified on phonetic grounds, in spite of Cret. *θόραξ*.

feminine forms we should perhaps class here *ῆδ-ονη* 'joy', but in *περόνη* 'clasp, buckle' *σφινδ-όνη* 'sling' and others we must recognise *-on-a*, an extension of *-on-* by *-a-*, cp. *ἄκον-η* 'whetstone' beside Skr. *āśan-* 'stone'.

Italic. Lat. *b-ono-* must ultimately be classed here; as to *beno-*, see p. 150. *dom-inu-s* and the like are ambiguous, see § 66 p. 145.

Old Irish. On account of the coincidence of *-yno-* and *-ono-* in Irish there are no examples that can be assigned with certainty to this section.

Germanic. O.H.G. *eig-an*, see above, p. 152. Goth. *v-an-s* O.H.G. *w-an* 'wanting, lacking', *√ ey-* (Gr. *εὔ-ν-ς*, Skr. *ū-ná-s*). O.H.G. *offan* A.S. *opan* 'open'. O.H.G. *wes-an* 'decayed'. O.Sax. *fag-an* 'glad', the accent being on the suffix in pr.Germ., cp. Goth. *fah-ēps* f. 'joy'. Participles like Goth. *vaúrþ-an-s* (the regular phonetic form would be **vaúrdans*, I § 530 p. 387), O.H.G. *gi-wort-an* 'having become': Skr. *vaṛt-áná-s*; Goth. *qum-an-s* O.H.G. *gi-kom-an* 'having come': Skr. *jagm-áná-s*; Goth. *fra-vitan-s* 'avenged': Skr. *vid-áná-s*; Goth. *ana-budan-s* 'commanded, enjoined' O.H.G. *gi-botan*: Skr. *budh-áná-s*. Instead of this we find in other dialects *-ina-* = Idg. *-eno-*. We may conjecture that in Germanic *-eno-* and *-ono-* were originally distinguished as in Sanskrit. When the reduplicating syllable in the perfect fell off, the two types were no longer clearly separated, and *-eno-* drove out *-ono-* in one part of the Germanic area. We have *-ana-* in secondary use in Goth. *þiud-an-s* 'king', from *þiuda* 'people' (cp. Skr. *vásav-ana-s*?).

-ono- occurs as an abstract suffix in the Germanic infinitives formed with pr. Germ. **-ana-m*, as Goth. *áih-an* O.H.G. *eig-an* 'possess, have', Goth. *vit-an* O.H.G. *wizz-an* 'know', Goth. *batr-an* O.H.G. *ber-an* 'bear, bring, forth'.

Balto-Slavonic.

Lith. *álk-ana-s* (fem. *alk-anà*) 'rather hungry, fasting' from *álk-ti* 'to hunger', *úk-ana-s* 'gloomy, overclouded' (*úkanos dēnos* 'gloomy days') beside *úk-stýli-s* 'to become gloomy, cloud over', Lett. *plakk-an-s* 'flat' from *plak-t* 'to grow flat' etc. Lith.

dov-ana Lett. *dāv-ana* 'gift' beside *dū-ti dū-t* 'to give', Lith. *ūk-ana* 'mass of cloud, cloudy sky'.

Whether Slavonic forms like Mod. Sloven. *jah-on* 'fortis equitator', beside *jahati* 'vehi' (Miklosich, Vergl. Gr. II 140) should also be classed here, is doubtful. We cannot analyse O.C.Sl. *zv-onŭ* 'sound' as *zv-onŭ* (cp. *zov-a zv-ati* 'to call') and compare it with Skr. *kr-anú-s* etc. (cp. Fick, Wtb. I³ 84, Osthoff, Morph. Unt. IV 373), unless we allow that the whole verbal base *zven-* in Slavonic (O.C.Sl. *svĭnĕti* 'to sound') has been developed out of a noun formed with *-eno- -ono-*.

c. *-eno- -ono-* added to stems ending in a vowel. It has been already remarked on p. 138, that the contraction was complete even in proethnic Indo-Germanic.

Skr. *sōma-dhāna-s* 'containing soma' *vasu-dāna-s* 'giving good' *vi-māna-s* 'traversing', like *cēt-ana-s*. *dāna-m* 'a giving' (Lat. *dōnu-m*), *sthāna-m* 'a standing, standing-place' (Avest. *stāna-* m. 'position', Gr. *δυστήρο-ς* 'in a bad position, unhappy', Lith. *stōna-s* O.C.Sl. *stanŭ* 'position'), *yāna-m* 'a going, moving' like *cēt-ana-m*. Pres. med. pass. part. *yāna-s* beside indic. *yāti* 'he goes', like *dūgh-āna-s*. Perf. med. pass. part. *jajñānā-s* beside indic. *jajñāu* 'he knew' (Slav. part. *po-znanŭ* 'known'), like *rīric-ānā-s*.

Gr. *δυστήρο-ς*, see above. **εὖ-θήρο-ς* 'in good position' whence *εὖ-θέρεω* 'am in good position': add also El. *οὐρ-θήραι* pl. 'compact' (Collitz' Samml. d. gr. Dial.-Inscr. no. 1168).

Ital. Lat. *dōnu-m*, Umbr. *runu* Osc. *dúnú-m* Mars. *duno-m* 'donum', see above.

Ir. Perhaps *bán* 'white, pale', from $\sqrt{bha-}$, Skr. *bhā-ti* 'he appears, shines' *bhāna-m* 'an appearing or growing visible'.

German. O.H.G. perf. part. *gi-tān* 'done' (O.C.Sl. *o-dĕnŭ* part. of *o-dĕti*, 'to put round, clothe'), like *gi-wort-an*. O.H.G. inf. *tōn tuon* 'do' *gān* 'go', like *ber-an*.

Balt.-Slav. Lith. *stōna-s* O.C.Sl. *stanŭ*, see above. Lith. *klōna-s* 'space behind the barn' beside *klō-ti* 'to spread out'. O.C.Sl. perf. part. *po-znanŭ* (see above), *danŭ* 'given' beside *dati*, *sĕnŭ* 'sown' beside *sĕti*, like *nes-enŭ*.

In some of these vowel-stems we may conjecture that forms with *-no-* and forms with *-eno-* *-ono-* once existed side by side. It is no longer possible to ascertain exactly how far this was the case.

§ 68. The Suffixes *-ino-* *-ind-*, *-īno-* *-īna-*, and *-a²ino-* *-a²ina-*. These suffixes are found side by side with practically the same meaning. They are used especially to form secondary adjectives, with such meanings as 'made or consisting of', 'springing from', 'belonging to the same kind as' that which is denoted by the noun from which they are derived. They are used very much in the same way as the secondary suffix *-jo-* (§ 63, 2), compare e. g. Lith. *av-ýna-s* with Pruss. *aw-i-s* O.C.Sl. *u-jǫ* 'uncle' beside Lat. *avo-s* 'grandfather', the meaning of these words being 'he who is descended from the grandfather'. Whether it bears any very close relation to the termination of Gr. *ἐαυρό-ς* Lat. *vērnu-s* and the like (§ 66 p. 144), and what etymological relation subsists between the initial sounds of the three forms *-ino-* *-īno-* *-a²ino-* (cp. Osthoff, Morph. Unt. IV 357) I cannot here decide. The connexion in sense (compare e. g. Gr. *δρυ-ρο-ς* 'of oak' — Goth. *triv-ein-s* 'wooden' — Avest. *drv-aen-i-* 'wooden'), combined with their connexion in point of sound, justifies us in discussing the three suffixes together.

1. *-ino-*.

Idg. **deks-ino-* 'dexter': Skr. *dákṣiṇa-s* Avest. *dašina-* O.C.Sl. *desinŭ*, in Lith. extended by a further suffix *deszin-ė* 'the right hand': cp. Gr. *δεξιό-ς* Lat. *dex-ter* O.Ir. *dess* Goth. *taih-s-va* 'dexter'; the word is closely allied to Skr. *dákṣ-a-s* 'able, strong'. Skr. *aj-ina-m* 'skin' O.C.Sl. *az-ino* beside Skr. *ajā-s* 'he-goat' *ajá* 'she-goat', Lith. *ožý-s* 'he-goat', cp. also Lith. *ož-īni-s* 'belonging to a he-goat'.

In Aryan *-ino-* was not fertile. Forms like Skr. *maliná-* 'spotted' (*mala-m* 'dirt') Avest. nom. *raocah-inō* 'shining' (*raocah-* 'light') can scarcely be classed here: it is most probable that they

only arose in later times through a transference of -in-stems to the o-declension (cp. § 60 p. 111 f.).

In Greek we have many adjectives, denoting material, origin or kind: *φηγ-ινο-ς* 'beechen' from *φηγός* (: Lat. *fag-inu-s*), *βύβλ-ινο-ς* 'made of papyrus' from *βύβλος*, *ἄνθ-ινο-ς* 'consisting of flowers' from *ἄνθος* n., *λά-ινο-ς* 'of stone' from *λάας*, *χίτρ-ινο-ς* 'of clay, earthen like a pot' from *χίτρος*, *γῆ-ινο-ς* 'earthen, earthly' from *γῆ*, *ἀίρ-ινο-ς* 'consisting of air, airy' from *ἀήρ*, *ἰχθύ-ινο-ς* 'derived from fish' (e. g. *ἐλαίον*) from *ἰχθύς*, *ἀνθρῶπ-ινο-ς* 'human' from *ἄνθρωπος*, *ἐκεῖν-ινο-ς* 'of that kind, of the same kind as that' from *ἐκεῖνος*, *πεδ-ινο-ς* 'found in the level country' beside *πεδίον*, *ἀληθ-ινο-ς* 'true' beside *ἀληθής*.

In Latin Idg. -ino- can hardly be distinguished from Idg. -yno- -eno- -ono- (§ 66. 67.) Here should be placed adjectives like *fag-inu-s* (see above), *laur-inu-s*, *junc-inu-s*, *lentisc-inu-s*, which are not very numerous.

Keltic. Perhaps Gall. *Mor-int* pl., name of a seaboard tribe (cp. Lat. *mar-inu-s*), and others to be found in Zeuss-Ebel G. C. 772.

In Germanic the suffix cannot be traced.

Balto-Slavonic.

In Lithuanian adjectives of material, origin, kind, are only rarely formed with -ina-s, usually with -ini-s, which shows the further suffix -io-: *áuks-ina-s* 'golden' from *áuksa-s* 'gold', *sidabr-ini-s* 'silvern' from *sidābra-s* 'silver', *med-ini-s* 'wooden' from *mēdi-s* 'tree, wood', *žem-inė bitis* 'humble-bee' from *žemė* 'earth', *rūksztinis óbūlas* 'a sour kind of apple' from *rūksztas óbūlas* 'some apple'.

Slavonic -inŭ: *želēz-inŭ* 'of iron' from *želēzo* 'iron' (Lith. *gelež-ini-s* 'of iron'), *medv-inŭ medov-inŭ* 'of honey, like honey' from *medŭ* 'honey', *zem-inŭ* 'earthly' from *zemlja* 'earth'. Further, some of the adjectives in -inŭ may belong to this section.

2. -ino-. The accentuation of the suffix was original, as shewn by the Sanskrit accent and by O.H.G. *magat-in* beside *magad*.

Indo-Germanic. Cp. Lat. *flr-inu-s*, O.H.G. *bibir-in* 'of

beaver' beside Avest. *baur-aēni-s* Lith. *bebr-īni-s* 'of beaver'. Lat. *su-īnu-s*, Goth. *sv-ein* n. 'swine', O.C.Sl. *sv-inū* 'suius'. Lat. *haed-īnu-s*, Goth. *gait-ein-s* 'of goats, relating to goats'. Skr. *nav-īna-s* 'new', O.C.Sl. *nov-ina* f. 'newly ploughed land, fallow'.

Aryan. In Sanskrit it forms adjectives whose meaning implies relation to something, without specifying the nature of the relation. *savatsar-īna-s* 'yearlong, yearly' from *savatsarā-s* 'year'. *prāvṛṣ-īna-s* 'belonging to the rainy season, rainy'. *viśvajan-īna-s* 'containing all sorts of people, ruling over all people, blessing all the world' from *viśva-janā-* 'all the world'. *sat-īnā-s* 'genuine' from *sānt-* 'true' (cp. ἀληθινό-ς and O.H.G. *wār-in*). *kan-īna-s* 'young' from *kand* f. 'young girl, maiden' (cp. O.H.G. *jung-in*). *nav-īna-s* 'new' from *nāva-* 'new'. *añjas-īna-s* 'leading straight on' from *añjasa-* 'direct, immediate'. Extended formations with *-īna-* from adjectives of direction in *-āñc-* are especially common; e. g. *apāc-īna-s* 'leaning back' from *āpāñc-*, *pratīc-īna-s* and *pratīc-īnā-s* 'turned towards' from *pratyāñc-*.

Greek. Here we have adjectives and substantives derived from adjectives, implying more or less clearly the meaning 'possessing the character or attributes denoted by the original noun'. ἀγχιστ-ίνο-ς 'very near together' from ἄγχιστο-ς. ἔρυθρ-ίνο-ς, 'red mullet' (cp. Mod.H.Germ. *rötling* 'rudd'). κορακ-ίνο-ς 'a sea fish black as a raven', also 'young raven', from κόραξ 'raven'. κειστρ-ίνο-ς a kind of fish, from κέιστρα a kind of hammer, 'pick'. τυφλ-ίνο-ς a kind of snake, from τυφλό-ς 'blind'. γέλασ-ίνο-ς 'laughter' from γέλασι-ς; ἐλεγξ-ίνο-ς 'blamer' from ἔλεγε-ς (cp. Goth. *ga-láub-ein-s* 'believing' O.H.G. *huor-in* 'libidinosus'). πολυποδ-ίνη a small kind of polypus. βολβ-ίνη a kind of bulb. δειγμακ-ίνη from δέγμαξ 'swine, sucking pig' (cp. O.H.G. *sw-in* beside *sn*). χοιρ-ίνη, a kind of sea mussel, from χοῖρος 'sucking pig'.

Italic. The suffix is frequently used to indicate material, origin, kind, that to which anything belongs. Lat. *capr-īnu-s* from *caper capra*, Umbr. *cabriner* gen. 'caprini'. Lat. *equ-īnu-s* from *equo-s*, Umbr. *ekvine* loc. 'equini' (borrowed from the Lat. I § 431 p. 320). Lat. *bov-īnu-s*, *can-īnu-s*, *vulp-īnu-s*,

columb-īnu-s, *noctu-īnu-s*; *diu-īnu-s*, *fūr-īnu-s*, *sūtr-īnu-s*, *sobr-īnu-s* for **sosr-īno-* from *soror* (I § 570 p. 428); *mar-īnu-s*, *vīc-īnu-s* (cp. Lith. *kaim-yna-s* 'neighbour'), *cisalp-īnu-s*, *peregr-īnu-s*, *Lat-īnu-s*, Umbr. *Ikuvinus* pl. 'Iguvini', Osc. *Nuvkirinum* 'Nucerinorum'. A few neuter substantives occur like *terg-īnu-m* 'whip of leather'. Feminine substantives are more numerous, as *capr-īna* 'goat's-flesh' *haed-īna* 'kid's flesh', *su-īna* 'pig's flesh' (cp. O.C.Sl. *bībrov-ina* 'flesh of beaver', Lith. *ož-ėnà* 'goat's flesh'); *sal-īna* 'salt works, salt mine', *molet-īna* 'mill', *pisc-īna* 'fishpond', *cēp-īna* 'onion field', *rāp-īna* 'turnip field' (cp. Lith. *aviž-ėnà* 'oat-field' and Skr. *ām-īna-m* 'flax-field' from *āmā* flax); cp. § 154.

Keltic. Here perhaps may be classed Gall. *Tic-īnu-s* name of a river, ground-form **tēq-īno-*, √ *teq-* 'run, flee, flow' (O.Ir. *techim* 'flee', Lith. *tek-mė* 'small river', O.C.Sl. *tokū* 'stream').

In Germanic it forms numerous adjectives denoting material, origin, and quality. Goth. *gulþ-eins* O.H.G. *guld-īn* 'golden' from *gulþ* gold n. 'gold'. Goth. *stāin-eins* O.H.G. *stein-īn* 'of stone' from *stāins* *stein* m. 'stone'. Goth. *airþ-eins* O.H.G. *ird-īn* 'earthen, earthly' from *airþa* *erda* 'earth'. Goth. *bariz-eins* 'of barley'; *þáurn-eins* 'of thorn'; *riqiz-eins* 'dark'. O.H.G. *rindir-īn* 'of cattle'; *swīn-īn* 'suillus'. Goth. *sunj-eins* 'truthful' from *sunji-s* 'true'. O.H.G. *wār-īn* 'truthful' from *wār* 'true' (cp. Skr. *sat-īnā-s*). O.H.G. *huor-īn* 'wanton, dissolute'. Goth. *áiv-eins* O.H.G. *ēw-īn* 'everlasting'.

-īno- was added to adjectives formed with an *l*-suffix, e. g. *luzzil-īn* from *luzzil* 'little', whence there arose in O.H.G. an independent suffix -*ilīn* -*alīn*, as in *huor-ilīn* 'wanton' (beside *huor-īn*), *luog-alīn* 'spying, lurking'.

The neuters of adjectives of material, used substantivally, gave rise to diminutives in Germanic; from the meaning 'belonging to another thing in respect of kind' it is only a short step to that of 'subordination', of 'having its attributes only to a limited extent' (cp. Gr. -*o-r* § 63 p. 128). So Goth. *gūt-ein* O.H.G. *geiz-īn* 'kid' from *gūt-eins* *geiz-īn* 'haedinus', Goth. *gum-ein* 'mannikin' *qin-ein* 'little woman' from *guma* 'man' *qinō*

'woman', O.H.G. *magat-in* A.S. *mægd-en* 'little maid, girl' from O.H.G. *magad* 'maid, girl'. It is doubtful whether the diminutive sense ever existed in Goth. *sv-ein* O.H.G. *sw-in* 'swine', which strictly belongs to this class of neuters: it would seem that it was isolated in form by the accentuation of the suffix (which in a monosyllable could not but be regarded as part of the root), and so separated from the others in point of meaning.

Balto-Slavonic.

Lith. *kaim-yna-s* 'neighbour' from *kēma-s* 'precinct, court' (I § 84 Rem. 2 p. 81), cp. Lat. *vīc-inu-s*. Old neuter forms appear to be represented by *saldum-ynai* pl. 'sweetmeats' from *saldūma-s* 'sweetness', *kartum-ynai* pl. 'bitter things' (*kartū-s* 'bitter'), and also by collectives like *aužūl-yna-s* 'a number of oaks standing together, oak grove' from *aužūla-s* 'oak', *krūm-yna-s* 'thick shrubbery' from *krūma-s* 'bush', *akmen-yna-s* 'heap of stones' from *akmū* 'stone', *ang-yna-s* 'nest of adders' from *angl-s* 'adder'. In these latter cases, the special meaning seems to have been developed through the contrast of the idea of the species with that of the individual thing.

In Slavonic we find adjectives of kind and connexion, like *mater-inū* 'motherly, of the mother', *neprijazn-inū* 'devilish, of the devil', *zvěr-inū* 'bestial'. Also feminine substantives like *zvěr-ina* 'flesh of wild beasts', *bībroc-ina* 'beaver-flesh' (cp. Lat. *capr-ina*, Lith. *ož-ėnà*); *vlūč-ina* 'wolfskin', *ovč-ina* 'sheepskin'; *medov-ina* 'an intoxicating drink' from *medū*; *mēsēc-ina* 'moonlight' from *mēsēcī* (cp. Lith. *mėnes-ėnà*), and others of the same sort, cp. § 154.

3. *-a^oino-* can be traced with certainty only in Aryan and Baltic.

In Sanskrit we find only *sāmidh-ēnā-s* 'relating to firewood' from *sāmidh-* 'firewood'; no doubt, however, it is contained in the suffix *-ēnya-* (an extension of it by *-io-*): *vīr-ēnya-s* 'manly, heroic' from *vīrā-s* 'man, hero', *pravyś-ēnya-s* 'rainy' beside *pravyś-īna-s* (see above, p. 157).

-aēna- is common in Avestic to denote material, origin and the like, as *ayarōh-aēna-* 'of metal, iron' from *ayah-*, *zaran-*

-*aēna-* 'golden' from **zarana-* = Skr. *hiranya-* n. 'gold', *er'zat-* -*aēna-* 'silvern' from *er'zata-* (cp. Lat. *Argent-īnu-s*), *temaṣh-* -*aēna-* 'dark, murky' from *temah-* 'darkness'; neut. *fravāxša-aēne-m* 'woodwork, pieces of wood, beams' from *fravāxša-* m. 'branch, twig'. Transferred to the *i*-declension it becomes -*aēni-*, as *zaran-aēni-š*.

Lithuanian. -*ēna-* is common in names of inhabitants, to denote their belonging to or springing from a place, as *Tilž-ēna-s* 'a man from Tilsit (*Tilžė*)'. Subst. fem.: *ož-ēnā* 'goatsflesh', *jaut-ēnā* 'beef', *žas-ēnā* 'gooseflesh' (cp. Lat. *capr-ina*, O.C.Sl. *zvěr-ina*); *aviž-ēnā* 'oat-field', *rug-ēnā* 'rye-field', *mėž-ēnā* 'barley-field' (cp. Lat. *cēp-īna*); *mėnes-ēnā* 'moonlight' from *mėnū* 'moon' (cp. O.C.Sl. *měsēc-ina*), and other examples.

Remark. It is a point for further investigation whether Lat. *aliēnu-s*, *terrēnu-s* belong to this group. The Slavonic adjectives of material in -*ēnū* like *drēv-ēnū* 'wooden' *olov-ēnū* 'lead' must in any case be left out of consideration, since the change of -*je-* to -*jā-*, as in *droždijanū* 'of yeast' for **droždij-ēnū* proves that their -*ē-* represents Idg. -*ē-*, see I § 78 p. 66.

§ 69. The Suffix -*tno-* -*tnā-*, -*tyno-* -*tyñā-*.

1. This appears in Sanskrit, Latin, Lithuanian, (and Greek?) in adjectives formed from adverbs of time, and in Sanskrit also in some cases from stems with similar meaning.

Sanskrit. From adverbs: *pra-tnā-s* 'former, old' from *prā* 'before', *nū-tna-s* *nū-tana-s* 'present' from *nū* 'now', *sanā-tāna-s* 'not transient, constant, lasting' from *sānā* 'from the beginning', *prātas-tāna-* 'in the morning, early' from *prātāh* 'early', *divā-tana-s* *divā-tāna-s* 'diurnal' from *divā* 'by day', *cirān-tana-s* *ciran-tāna-s* 'coming from olden time' from *cirā-m* 'long ago', *śvas-tana-s* 'of to-morrow' *hyas-tana-s* 'of yesterday'. Formed from stems: *sanā-tna-s* beside *sanā-tāna-s*, *cira-tnā-s* beside *cirān-tana-s*.

Greek. *ἐπε-ταύος* 'lasting for ever'? The etymology of the word has not been satisfactorily explained.

Latin. *diū-tinu-s*, *prīs-tinu-s*, *crās-tinu-s*, *sērō-tinu-s*, *prīmō-tinu-s*.

Lithuanian. *dabar-tina-s* 'present' from *dabar* 'now'.

2. Further, it is a primary suffix in Aryan, Latin and Balto-Slavonic, in participles and infinitives, being probably an extension of *-to-* (§ 79) by a secondary suffix *-no-* (cp. O.C.Sl. *-enĩnũ* beside *-tĩnũ*).

Old Persian shows infinitives in *-tanaiy*, as *car-tanaiy* from *kar-* 'do, make', *katanaiy* (read *kantanaiy*, see I § 197 Rem. p. 166) from *kan-* 'dig'; with these Persian infinitives Bartholomae connects Avest. *aiwi-sōiṇē* 'for dwelling in'. To these should no doubt be added Skr. *cyāu-tuā-m* 'preparation, undertaking' Avest. *šyao-pna-* m. 'deed, work' beside Skr. *cyāv-a-tē* 'bestirs itself, moves', perhaps also Skr. *pāt-tana-m* 'city', orig. 'stronghold', compare *pad-* in *pi-bā-anā-* 'standing fast, firm', cp. also Lat. *op-pid-u-m*¹⁾.

In Italic *tno-* appears in the form *-ndo-* after vowels,²⁾ in the gerund and gerundive, as **piā-tno-*, Lat. *piando-*, Umbr. *pihaner* 'piandi' Osc. *úpsannam* 'operandam' (for the assimilation of *-nd-* to *-nn-* *-n-* in Umbr.-Osc. see I § 506 p. 371). Lat. *dando-* for **da-tno-*, *in-plendo-* for **-plē-tno-*. So *-bundo-* in *vagābundus tremebundus* etc. for **-fū-tno-* = Lith. *bū-tina-s*, cp. *vagā-bor.* *secundo-* for *secū-tno-*, cp. *sectu-tu-s* (J. Schmidt, *apud Bersu, Die Gutturalen und ihre Verbindung mit v im Lat.* p. 134). *rotundus* for **rotō-tno-* from a verbal stem *rotō-* 'to rotate'. Further, we have the group of forms in *-cundu-s*, as *rubi-cundu-s*, *irā-cundu-s*, *fū-cundu-s*, *fē-cundu-s* for **-cō-tno-*, derived from adjectives in *-co-*, such as **rubico-* (whence *rubicāre*, *Rubicō*) etc. With the forms in *-ō-tno-* compare *aegrō-tu-s* from *aegro-*, Gr. *κροτω-ρό-ς* and the like. The change to *-ndo-* was impossible in forms coming from verbal stems which ended in a consonant (e. g.

1) In Greek only a few uncertain examples have survived, e. g. *ἀντρω-ς* *ἀντρώρο*; (Hesych.), which may perhaps be identified with Lith. *dēktina-s* (V^{dh}egh-).

2) Cp. Lat. *pundō* for **patnō*, beside *pateō*, and *tendō*, Umbr. *ostendū* 'ostendito', for **te-in-o*, V^{ten-}. That the *d* of *tendō* is not the 'root-determinative' *d* (*dh*), as in *fren-dō cū-dō clau-dō*, is shewn by *ten-tu-s* contrasted with *fre(s)u-s*, *in-cūsu-s clausu-s*. This 'determinative' *w* was in fact used to form non present stems but verbal stems. *tensu-s* was formed later by analogy.

**pectno-* or **pecteno-* = Lith. *vèsztina-s*, beside *pekō* Lith. *vežū*), and this gave rise to a variation in form, which was removed by a process of levelling; on the analogy of the relation of *piando-* to *piāns piantis*, of *dando-* to *dāns dantis*, of *im-plendo-* to *im-plēns -plentis* etc., *ferēns* produced a gerund-stem *ferendo-*, *faciens* the stem *faciendo-* and so on. The Umbr. *an-ferener* 'circumferendi' makes it probable that this development was complete in proethnic Italic. The Latin by-forms with *-o-* (*-u-*) like *ferundo-* *faciundo-* *eundo-* must be explained as imitations of the variation *-ent-* *-ont-* in the present participle, as e. g. in *iēns euntis*, *flexuntēs* and the like (§ 126).

Lith. *Participia necessitatis* in *-tina-s*. *sūk-tina-s* 'torquendus' beside inf. *sūk-ti*. *jėškō-tina-s* 'quaerendus' beside *jėšškō-ti*. *minė-tina-s* 'memorandus' from *minė-ti*. *vėry-tina-s* 'credendus' from *vėry-ti*. Without the implied meaning of necessity we have *bū-tina-s* 'being, remaining, actual' from *būti* 'to be': Lat. *-bundu-s*. In Slavonic we have *-tīno-*, an adjectival suffix, e. g. *pri-jětīnū* 'pleasant' (we also find *-enīno-*, as *ne-iz-d-rečenīnū* 'inexpressible').

There was therefore in Indo-Germanic a verbal adjective in *-tno-* *-tyno-*, whose neuter was used as an abstract substantive (*nomen actionis*). The adjectival meaning appears in Latin and Lithuanian, the substantival in Old Persian and Latin. Cp. § 158.

Remark. Compare the Author, 'Der Ursprung der lat. Gerundia und Gerundiva', American Journal of Philology VIII (1887) p. 441 ff. In his recently published dissertation 'Die Etymologie der sogen. Gerundivformen' (Königsberg 1888), A. Döhring connects the Latin *-ndo-* forms with the Gr. nouns in *-avθo-*; *-ivθo-*; *-ovθo-*; *-ovθo-*; as *ἀξαρθo-*; *ἀγινθo-*; and accordingly argues for an original Idg. *-ndho-*. But besides the fact that these Gr. words show no connexion in meaning with the Lat. gerund and gerundive, the Umbr.-Osc. forms with *-nn-* (*-n-*) can hardly be reconciled with this theory. By the phonetic laws hitherto discovered in the Italic dialects the forms in *-nno-* can be referred only to pr. Ital. *-ndo-*, not to *-n̥po-*. The most recent theory is that of L. Havet (Mém. de la Soc. de lingu., VI 6 ff.) who identifies *ferundu-s* with Gr. *φερόμενο-s*; from **feromeno-* by dissimilation he would derive a supposed form **feromēdo-* (what of *ferimini*?), from this **feromdo-* **ferondo* *ferundo-*; which is simply incredible.

§ 70. The Suffix *-tvaná-* in Sanskrit and *-συνο-* *-συνά-* in Greek¹⁾.

These suffixes are no doubt rightly regarded as very closely connected.

Skr. *-tvaná-* (neut.) is a secondary suffix having the same meaning as *-tvá-* (§ 61); as *vasu-tvaná-m* beside *vasu-tvá-m* 'riches', *pati-tvaná-m* 'married state', *martya-tvaná-m* 'the manner of men'. In Avestic *-havana-* is primary in *a-stao-hwane-m* 'praise, guerdon'.

Gr. *-συνο-* is secondary in adjectives like *δουλό-συνο-ς* 'serving', *γηθό-συνο-ς* 'glad, joyful', *θάρο-συνο-ς* 'confident' for **θάρσο-συνο-ς* (I § 643 p. 482), and in substantives like *δουλο-σύνη* 'service', *κλεπτο-σύνη* 'thievery', *μνημο-σύνη* 'memory' (cp. § 158). The ending *-ο-συνο-* became general, whence we have *μαντοσύνη* from *μάντι-ς*, *θεμιστ-οσύνη* from *θέμις*, *ιερωσύνα* (neut. pl.) and *ιερωσύνη* for **ιερη(f)-ο-* from *ιερής* (Wackernagel, Philol. Anzeiger 1886 p. 73 f.).

Remark. It must be confessed that the phonetic relations of the Greek and Sanskrit suffixes are not clear, since *-συνο-* cannot be regularly derived from **τινο-* (which would be related to Skr. *-tvana-* as *ἔπνο-ς*: Skr. *śrápna-s*, an Indo-Germanic variation of ablaut). Should we suppose a doublet in Greek, **-τφνο-* beside **-τινο-*, and that the *σ*-sound which was regularly developed in *-τφνο-* (I § 166 p. 147, § 489 p. 361) afterwards invaded **-τινο-*? Cp. Att. *σύ* for *τί* because of *σέ*, Hom. *πέπυρες* beside New-Ion. *τίονες* (Lith. *ketveri*), G. Meyer Gr. Gr.² p. 258, Osthoff Paul-Br. Beitr. XIII 425. Or may we assume for Skr. *-tvana-* and Gr. *-συνο-* a common ground-form *-tu-mno-*? Cp. Gr. Ion. *οὐρανός* for **φορφαρός* and Skr. *rdraṇa-*, for which von Fierlinger (Kuhn's Ztschr. XXVII 475) assumes **moru-mno-* as the common ground-form (here, indeed, the relation of the Greek and Sanskrit forms would be exactly the reverse); add Skr. *catuṛ-thā-* and Lith. *ketviṛta-s* for **getuṛ-to-* (I § 155 p. 140).

§ 71. The Suffix *-mno-* *-mnā-* (*-myno-* *-myṇā-*?) and *-meno-* *-menā-*, *-mono-* *-monā-*²⁾.

In proethnic Indo-Germanic, this suffix formed middle (passive) participles from tense-stems containing the thematic

1) Th. Aufrecht, Das Affix *συνο-ς*, *συνη*. Kuhn's Ztschr. I 481 ff.

2) Bechstein, De nominibus suffixo *mino* (*mno-*) instructis, Curtius' Stud. VIII 378 ff.

vowel, ep. pres. Skr. *bōdha-māna-s* Gr. *πενθό-μενο-ς*, fut. Skr. *bhōtsyā-māna-s* Gr. *πενθό-μενο-ς*, from *bheydh-*, 'be awake, aware'. We find it in Aryan occasionally, but in Greek universally extended to non-thematic stems, which originally had *-yno-* *-ono-*; see § 65—67 and observe the Remarks on pp. 141 and 152.

It is now impossible to trace the original distribution of the forms which differ in their grade of Ablaut.

In the Umbro-Oscan dialects, and in Balto-Slavonic, *-mo-* appears with a similar function: we are hardly justified in regarding this as a regular phonetic variant of *-mno-* (§ 72, I p. 166).

Remark. Sometimes it is difficult to decide whether a particular form contains this suffix or a later extension of *-men-* by means of *-o-* *-ā-*, as must certainly be assumed in e. g. Avest. *airya-mana-* beside *airya-man-*, Gr. *ναίνο-μενο-ς* beside *δνομα* (§ 117), *ποτ-μνη* 'herd' beside *ποι-μῆν* 'herdsman', *ἡγε-μῖν* 'leader' (f.) beside *ἡγε-μῖν*, Lat. *colu-mna* beside *colu-men*, Goth. *na-mna-* (dat. pl. *namna-m*) beside *namō*. Cp. § 65 Rem. p. 139.

Aryan.

In Sanskrit only *-māna-* occurs. Pres. *bhāra-māna-s* beside indic. mid. *bhāratē* (*bhar-* 'bear'), *juṣā-māna-s* beside indic. mid. *juṣā-tē* (*juṣ-* 'taste, enjoy'), *kriyā-māna-s* beside indic. pass. *kriyā-tē* (*kar-* 'make'). Fut. *yakṣyā-māna-s* beside indic. mid. pass. *yakṣyā-tē* (*yaj-* 'revere'). The Ved. perf. part. *sasr-mānā-s* beside *sasr-ānā-s*, from indic. med. pass. *sasr-ē* (*sar-* 'flow') is unique.

In Avestic we find *-mna-* and *-mana-*; the latter should no doubt be referred rather to *-myno-* than to *-meno-*, since the forms vary merely in accordance with the requirements of the metre. Pres. *yaza-mna-* beside indic. mid. *yazaitē* (*yaz-* 'revere, praise'), *bar'ze-mna-* *bar'ze-mana-* 'being great or high', *añha-mana-* beside indic. mid. *añheitē* = Skr. *āśya-tē* I § 558 p. 415 (*ah-* 'throw'), *vaēdaya-mna-* beside indic. mid. (caus.) *vaēdayēitē* (*vid-* 'know', causal 'make to know, show'). Fut. *var'šya-mna-* beside indic. mid. pass. *var'šyēitē* ground-form **uerk-sje-taj* I § 401 p. 296 f. (*var'z-* 'work'). Sometimes also in non-thematic stems, as *saya-mna* beside *say-ana-*, from indic. mid. *sar-tē* (*say-* 'lie').

Greek. As a living participial suffix only *-μενo-* occurs. Pres. *φάσμενoς* beside indic. mid. pass. *φάσεται* (*φασ-* 'bear'), *φιλέμενoς* *φιλείμενoς* beside indic. mid. pass. *φιλείται* *φιλείται* (*φιλέω* 'I love'); side by side with these we find Delph. Locr. *καλείμενoς* Arcad. *ἀδελφόμενoς*, and similar forms elsewhere, whose ending presupposes a form **-ι-με-μενoς*. Fut. *δοσομενoς* beside indic. mid. *δοσεται* (*δω-* 'give'). *-μενo-* also established itself in all non-thematic tenses: contrast e. g. pres. *τίθεμενoς* beside indic. mid. pass. *τίθεται* with Skr. *dādh-āno-s* (√ *dhē-* 'set, lay'), perf. *γεγεμέμενoς* for **γεγενομενoς* beside indic. mid. pass. 1. s. *γέγεν-μαι* with Skr. *jajñā-dhō-s* (O.H.G. partic. *-koran* (√ *ghens-* 'taste'). The accentuation in the perfect- (Att. *-μέμενoς*) was no doubt originally *-μενός*, see I § 676 p. 542 f.

The form *-μνο-* (cp. the last Remark) perhaps occurs in certain formations no longer felt to be participial, as *βέλε-μνο-ν* 'missile' (*τὸ βελλόμενον*) beside *βέλος*, *στά-μνο-ς* 'crook' beside *ἵστημι* 'I place'.

Italic. In Latin we must refer to this suffix the ending of the 2. pl. *-minī*, as *legi-minī* (sc. *estis*) = *λεγομενοι*. The omission of *estis*, which *a priori* would be somewhat remarkable, is easily explained if (with Wackernagel, Verhandl. der 39. Philologenversammlung p. 281 f.) we compare the imperative form *legiminī* with the Greek infinitive *λεγόμεναι* (§ 117); the indic. *legiminī* representing both *λεγόμενοι* and *λεγόμεναι*, caused the imperat. *legiminī* to be used only as plural and as mid.-pass.; so conversely, when *legiminī* representing *λεγέμεναι* had been so established in the imperative system it caused the omission of the copula in the indicative, *-minī* being regarded as the ending of the 2nd. pers. The suffix occurs also in *fē-mīna*, i. e. 'she who suckles' (cp. Gr. *θῆ-λυ-ς* 'giving suck, female'). *clēmēns* according to Osthoff (Wölfflin's Archiv IV 463) came from **clēmēnos* for **dei-e-mēno-s*, cp. *-clīnō*: Skr. *śrāya-māna-s*. It is doubtful whether this old Lat. *-mēno-* was originally *-myno-*, *-meno-*, or *-mono-*.

-mno- is seen perhaps in Lat. *alumni-s*, *Vertumnu-s*, *Volumnu-s* and similar forms (cp. the last Remark).

Pruss. *po-klausi-mana-s* (f) part. 'becoming heard' beside Lith. *klausý-ti* 'to hearken' is the only form of this kind in the Baltic dialects.

§ 72. The Suffix -mo- -mā-, -mmo- -mmā-.

There are three classes of forms:

1. -mo- occurs as a participial suffix in Umbro-Samnitic and in Balto-Slavonic, with the same meaning as -meno- (§ 71). It may be related to the -mo- in adjectives like Avest. *tū-ma-* 'strong', Gr. *θερ-μός* Lat. *for-mu-s* 'warm' (see below, 3). At the same time it is perhaps a possible alternative to refer it to -mmo- (cp. I § 219 p. 187).

In the above-named Italic dialects, the suffix is found in imperative forms like Umbr. *persnih-mu* 'precamino, supplicato' Osc. *censa-mu-r* 'censemino'.

In Balt.-Slav. -mo- is a living suffix in the pres. part. pass., in Lith. in the fut. part. pass. also, though this is now obsolete. In Pruss. we have -mana- instead; see § 71.

Lith. pres. *vėža-ma-s* 'being or capable of being carried', beside the indic. *vežù* 'veho', *jója-ma-s* beside *jó-ju* 'I ride', *jėszko-ma-s* beside *jėszkau* 'I seek' (1. pl. *jėszko-me*). Fut. *vėszima-s* *jósi-ma-s* *jėszkósi-ma-s* beside indic. *vėsziu* (ground-form **uegh + sjo*) *jó-siu* *jėszkó-siu*.

O.C.Sl. *vezo-mŭ* beside indic. *vezq* 'veho', *znaje-mŭ* beside *znajq* 'I know', *chvali-mŭ* beside *chvaljq* 'I praise' (1. pl. *chvali-mŭ*).

2. -mo- mmo- is a superlative suffix in words denoting number, rank, order in space and time, and the like. This suffix is the second element in -tymo- (§ 73). The corresponding comparative suffix is generally -ero-, as -tero- beside the superl. -tymo- (§ 75). A possible derivation is suggested in the Remark on p. 167.

Indo-Germanic. **septmó-* (**sepdmó-* **sebdmó-*? see I § 469 p. 345) *sept-mmó-* 'septimus': Skr. *saptamá-s* Gr. *ἑβδομο-s* (see under Greek) Lat. *septimu-s* O.Ir. *sechtm-ad* Lith. *sėkma-s* Pruss. *septma-s* O.C.Sl. *sedmy-jŭ*; similarly **dekmmó-* 'decimus' (see under Aryan) and **oktmó-* **oktmmó-* 'octavus' (see under Balto-Slavonic). **up-mó-* **up-mmó-* 'uppermost, highest': Skr. *upaup-s*,

Lat. *summu-s* for **s-up-mo-s* (for the *s-* see I § 568 p. 425), A.S. *ufem-est*, cp. comparative Skr. *úpara-* Lat. *s-upero-*. **medh-ymó-* 'midmost' beside **medh-jo-s* 'medius' (§ 63, 3 p. 132): Avest. *mađema-* 'midmost', Goth. *miduma* subst. f. 'middle' (cp. § 158) O.H.G. *metamo metemo* 'mediocris'; beside these are forms which have been readjusted to suit the parallel **medhjo-*, Skr. *madh-yamá-s* 'midmost' and Goth. *midjuma-* or *midjuman-* in *midjun-gards* 'the globe' for **midjum(a)-gards* (cp. § 40 p. 69), O.H.G. *mittamo* m. 'middle' (cp. O.H.G. *mittil* A.S. *middel* beside the more archaic O.H.G. *metat* 'medius' and Gr. *viáto-ς* beside *réato-ς*, 'novissimus, extremus' from **vefjo* **vefo-*).

Remark. **septimó-* may be related to the cardinal **septm* as the Gr. *πῆρς*; to *νιαρ*, **udró-* (Skr. *udrá-s* etc.) to *ἰδωρ* (§ 74). The ordinal numeral appears to have been formed by the addition of -ó-, cp. Lat. *nōnu-s* from **neymnó-* from **neym* (I § 232 p. 197, § 233 p. 198, § 249 p. 205). It is possible therefore that the superlative suffix -mo- was taken bodily from the the ending of the numerals. Cp. the suffix -to-, which serves in the same way to form both ordinal numerals and superlatives, § 81.

Aryan. Skr. *daśamá-* Avest. *dusema-* 'decimus': Lat. *decimu-s* O.Ir. *dechm-ad*, common ground-form **dekmó-*. Skr. *ap-amá-* Avest. *ap-ema-* 'most distant, last' beside Skr. *ápa* 'from, away'. Skr. *av-amá-* 'lowest, next' from *áva* 'off, down'. *adh-amá-* 'undermost' (ground-form **udhymó-*) beside *adhás* 'below': the relation of this word to Lat. *infimu-s* and *inferu-s* is not clear; see Ascoli, Sprachwissensch. Briefe 83, and above I § 389 Rem. p. 292¹⁾. *par-amá-* 'furthest, last, best' from *pára-* 'further'.

In Greek it is rare. *ἑβδομο-ς* 'septimus' and Heracl. Delph. *ἑβδομηχorta* for **ἑβδομ-* with anaptyctic -o- and -ε- (see I § 626 p. 470): O.C.Sl. *sedmy-jŭ* etc., see p. 166 above. *πρό-μο-ς* 'foremost' from *πρό-* 'before': cp. Umbr. *promom*, Goth. *fra-m*. Perhaps

1) In this Remark there is an error in the translation. The second sentence should read: "we might regard the *f* as regular in *in-fundō con-fundō* and thence substituted for *h* in the uncompounded verb, if there were more evidence for the suggestion that the word *infumus infimus* arose from an old phrase **in fumo* 'in humo', etc." [i. e. if we could prove that pr. Ital. *χ* in Latin passed through the stage *f* on its way to *h* initially, and that the compounds *infundo confundo infimus* were formed just at that period.]

also πύμ-ατο-ς 'last' (cp. ἐβδόμ-ατο-ς beside ἐβδομο-ς, τρίτ-ατο-ς beside τρίτο-ς), although its base is certainly obscure (in J. Schmidt's derivation from *ἄπο*, as though it came from **(a)πυ-μο-* (Kuhn's *Ztschr.* XXVI 24) the *υ* presents some difficulty).

Italic. Lat. *decimu-s* Osc. *dekmaniois* 'decumanis': Skr. *daśamā-* and similar ordinals (see p. 167 above). Lat. *summu-s* Umbr. *somo* 'summum' pr. Ital. **s-up-mo-s*: Skr. *upamā-s* 'uppermost, highest'. Lat. *prīmu-s* Pelign. *pris-mu* 'primo' or 'primum' beside *prius*. Lat. *īmu-s* Osc. *imad* abl. 'ima'; the word no doubt belongs to O.Ir. *is* 'below' *īchtar* 'the lower part'¹). Lat. *min-imu-s*, *plūr-imu-s*, *brāma* (beside *brevi-s*); formed from adverbs in *nē*, *extrē-mu-s* *postrē-mu-s* *suprē-mu-s*. Osc. *pos-mo-m* 'postremum', cp. Lat. *pōne* for **pos-ne*. Umbr. *prumum* *promom* 'primum': Gr. *πρό-μο-ς* Goth. *fra-m*; šimu šimo 'ad citima, retro'. Umbr. *nuvime* adv. 'nonum', a later formation like Skr. *navamā-s* and O.Ir. *nōma-d* 'nonus'. Umbr.-Osc. *nesimo-* 'proximus' for **necsimo-*, no doubt connected with Lat. *nectō nexus*; O.Ir. *nessam* 'next' beside the comparative *nessa*.

-ημο- is probably also to be traced in Lat. superlatives like *pulcerrimu-s* *celerrimu-s* *facillimu-s* *simillimu-s* (Danielsson, Pauli's *Altital. Stud.* III 153). **pulcr-is-emo-* **fac-is-emo-* (-is- is the weakest form of the comparative suffix, cp. *pulcr-ior* *facil-ior*) became **pulcr-semo-* **pulcr-simo-* and **fac-semo-* **facil-simo-* (I § 633 p. 473 f.) and then *pulcerrimo-* *facillimo-* (I § 571 p. 429).

Old Irish. The ordinals in -ημο- appear to be extended by -eto-, as *sechtmad* 'septimus' for **septηmeto-s*, *dechmad* 'decimus' for **dekηmeto-s*, undoubtedly through the influence of *cōiced* 'quintus' *sessed* 'sextus' (§ 81); similarly in the other Keltic languages, e. g. Mid.Cymr. *seithuet* 'septimus'. Cp. Gr. *ἐβδόματο-ς* on the analogy of *δέκατο-ς*, etc. *rem-* 'ante, prae', which has lost an initial *p* (I § 339 p. 268): Goth. *fruma* Lith. *pirma-s* 'primus', common ground-form **pṛ-mo-*.

1) See Loth, *Mém. de la Soc. de lingu.* V, 231 f. and d'Arbois de Jubainville, *ib.* VI 55 f. It is better to refer it to **ik-mo-* or **ig-mo-*, than to **iks-mo-*, from which we should expect in Osc. *iemō-*.

In Keltic this suffix was regularly used to form the superlative. In O.Ir. *nessam* 'next', and some other forms, *-am* corresponds to Lat. *-imo-*; see above. On the other hand, *-em* cannot be identified with *-mmo-* in e. g. *dilem* 'pleasantest' (comp. *diliu* pos. *dil*) *coemem* 'fairest' (comp. *coimiu* pos. *coem*) *toisigem* 'first, most excellent' (comp. *toisigiū* pos. *toisech*) *lugem* 'smallest' (comp. *laigiū*) *ōam* for **ō-em* 'youngest' (comp. *ōa*) *mām* for **mā-em* 'greatest' (comp. *māo*). Probably Thurneysen is right in comparing these forms with Latin superlatives like *pulcerrimu-s* (see above); **dilis-mmo-* became **dilisamo-* **diliham(o)-*, finally *dilem*¹⁾. To such superlative forms the same *-em* was sometimes added a second time, as *uaislimem* 'highest' beside the comp. *uaisliu* pos. *uasal*, cp. Gr. *-taro-s* § 81.

Germanic. In protoethnic Germanic this suffix passed over into the *n*-declension in adjectives; the Gothic feminine ended in *ei* gen. *-eins*, as in the comparatives in *-iz-a* (see §§ 110, 135). In Gothic the forms in *-uma* also acquired a comparative meaning, so that e. g. *inn-uma* was sometimes equivalent to the O.H.G. *inn-ero* (cp. de Saussure, *Mélanges Renier* 383 ff.). Goth. *fru-ma* 'prior, primus' (whence *frum-ists* 'primus'), O.H.G. *fruma* f. 'use, advantage': O.Ir. *rem-* Lith. *pār-ma-s* common ground-form **pr-mo-*; contrast with these Goth. O.H.G. *fra-m* adv. 'forwards, further': Gr. *πρό-μο-s*. Goth. *aúh-uma* 'higher, highest', compare *aúh-m-ists* and *aúh-um-ists* 'highest', A.S. *ȝmest* = Goth. *aúhmists*. Goth. *inn-uma* 'inner, innermost' A.S. *inn-em-est* 'innermost'. Goth. *spēd-um-ists* 'latest, last' beside *spēd-ists*. Goth. *hleid-uma* 'left, ἀριστερός', compare no doubt O.H.G. *(h)li-ta* 'slope, declivity' Gr. *κλί-τύ-s* 'hill'. A.S. *sīd-em-est* 'latest' beside *sīd-est*, *laet-em-est* 'latest'; *nord-m-est* 'northernmost' *sūd-m-est* 'southernmost'.

1) "The loss of an *s* is indicated both by the medial *h* of O.British *hinhām* 'eldest' for **senisam-*, and later **henihām-* (= Ir. **sinem*), and by the retention of the older tenuis before this suffix in Cymric, as in the superlative *rhataf* for **rat-ham* beside the pos. *rhad* 'cheap' Whether Gall. *Belisama* (a goddess) and *Trigisamo-* (the river 'Treisam') belong to this group is doubtful." Thurneysen.

In Balto-Slavonic the suffix is rare. Lith. *āsma-s* Pruss. acc. *asma-n* O.C.Sl. *osmy-jā* 'octavus' pr. Balt.Slav. **os(t)-mo-*: Skr. *aṣṭamā-* Avest. *aṣtema-* O.Ir. *ochtm-ad*: this word, in spite of the agreement of several languages, can scarcely have been formed until after the separation of the Indo-Germanic families, as was Skr. *navamā-* Umbr. *navime*. Lith. *pir-ma-s* Lett. *pir-mā-is* Pruss. *pir-mois* 'primus': O.Ir. *rem-* Goth. *fruma*.

3. *-mo-* with other functions. It forms substantives, and adjectives. There are only a few groups of words which by their parallelism in form and meaning constitute a special class, as e. g. the Greek abstract substantives in *-μός*. The substantives are generally masculine, more rarely feminine, and the neuter very seldom appears.

-mo- is used as a denominative suffix in several languages, but this use is on the whole rare and no doubt a secondary development.

Where the suffix is primary, the root syllable, from the very earliest period, varies between the weak and the strong grade of ablaut; in the latter case, in roots of the *e*-series, the *o*-form seems to have been regular in the protoethnic and later periods. It is common to find forms of the strong and weak grade in the same word, e. g. Gr. *λί-μός*: *λοι-μός*, Skr. *dhū-mā-s*: O.H.G. *tou-m*, Gr. *χῆ-υός*: Skr. *hō-ma-s*, Skr. *idh-mā-s*: Avest. *aṣ-ma-* (I § 94 p. 88); this indicates an original variation of ablaut within the same paradigm (cp. Osthoff, *Morph. Unt.* IV 127 f.).

In a large number of cases *-mo-* is closely connected with *-men-* (§ 117). In *e*-roots, where both suffixes are found side by side and the root-syllable has *e*, as in Gr. *κενθ-μός* 'hiding-place', O.C.Sl. *zi-ma* 'winter' beside Gr. *χει-μών* 'storm, winter', the presumption is in favour of the greater antiquity of the *men*-formation. In many instances there has obviously been a confusion of the two. In compound words, the *mo*-form was substituted for *men-* both in the Indo-Germanic period and later (§ 12 p. 27)¹.

1) For this process of substitution in the use of the suffixes a reference may now be added to J. Wackernagel, Kuhn's *Ztschr.* XXX 296 ff.

Idg. **dhū-mó-* 'ebullition, smoke': Skr. *dhūmá-s*, Gr. *θῦμός* ('spirit, passion'), Lat. *fūmu-s*, Lith. pl. *dūmai*, O.C.Sl. *dymā*, add O.H.G. *tū-mōn* 'to turn one's self in a circle'; beside this we have **dhou-mo-* in O.H.G. *toum* 'vapour, fume'. **tu-mo-* **tū-mo-* from $\sqrt{\text{teu-}}$ 'swell, grow strong': Skr. redupl. *tū-tumá-* Avest. *tūma-* 'strong', Mod.Cymr. *twf* 'vigor' (a borrowed word?), O.C.Sl. *tūma* f. 'great number' (there are many extended formations from the -mo-stem, as Skr. *tūm-ra-* 'fat, strong', Lat. *tumēd*, O.H.G. *dūmo* m. 'thumb'); with these compare **tou-mo-* in O.H.G. *thauu doum* 'vapour', which was confused with *toum*. **ṛ-mó-* 'arm, something bowed or bent': Skr. *ṛmá-s* Avest. *ar^hma-* Armen. *arm-ukn* Lat. *armu-s* O.H.G. *aram* O.C.Sl. *ramo*. **ḡhi-mo-* **ḡhi-mā-*: Skr. *himá-s* 'cold' *hi-mā* 'winter' Avest. *zima-* m. 'winter', Armen. *jim-ēr*n (gen. *jim-eran*) 'winter' for **jim-er-* (for the suffix compare *amairn* 'summer'), Gr. *δύσχιμος* 'exposed to dangerous storms, fearful', Lat. *bīmu-s* for **bi-himu-s* (I § 510 p. 374 § 604 p. 458); the vocalism of Idg. **ḡhej-men-* (Gr. *χιμῶν*) appears in Lith. *žēmà* O.C.Sl. *zima* 'winter'; and we can trace the form **ḡhiem-* **ḡhim-* in Avest. *zyd*, gen. *zim-ō* 'winter's frost' Gr. *χιών* 'snow' Lat. *hiems* (§ 160, 2). **sti-mó-* (cp. Skr. *styā-* 'curdle, thicken', also connected with Goth. *stái-n-s*): Skr. *stīmá-* 'lazy, creeping' *pra-stīma-* 'pressed, heaped', Mid.H.G. *stīm* m. 'bustle, confused mass' O.Icel. *stīm* u. 'wrestling, trouble' (Lith. *stymas* and *styma* 'shoal of moving fish' are no doubt borrowed from Scandinavian, cp. Swed. *stīm* 'tumult, shoal of tumbling fish'); Mid.H.G. *stei-m* 'turmoil' shows a stronger form of the root. **ghor-mó-s* ($\sqrt{\text{gher-}}$): Skr. *gharmá-s* 'heat' Avest. *gar^hma-* 'warm' *gar^hme-m* 'warmth' (see especially I § 78 p. 69, § 445 p. 331), Lat. *foru-m-s*, O.H.G. *warm* 'warm', Pruss. *gorm-e* 'heat'; beside these, with *e*, Armen. *ferm* 'warm', Gr. *θέρμός* 'warm' *θέρμη* 'warmth'. **oi-mo-* 'way' ($\sqrt{\text{ei-}}$): Skr. *é-ma-s* 'way, path' Gr. *οἶμος* *οἶμη* 'path, tract'.

For its use as a secondary suffix there seems to be only one example which we can regard as proethnic: Skr. *dru-ma-s* 'tree' Gr. *δρυ-μά* pl. 'wood' *δρυ-μός* 'woodland', beside Skr. *dru-* Gr. *δρῦ-* 'wood'.

Aryan. In Sanskrit it is nearly always masculine. Skr. *sā-mā-m* 'milk, water', *sōma-s* Avest. *hao-ma-* 'sap, soma-drink', from *su-* 'press'. Skr. *iṣ-mā-s* *iṣ-mā-s* 'god of love' Avest. *aēš-ma-m* 'chiding, wrath': cp. Gr. *ἔμεσο-s* 'longing, desire'. Skr. *bhā-ma-s* 'light, sheen' Mod.Pers. *bām* 'light' Avest. *bāmya-* 'shining, clear'. Skr. *tōk-ma-s* 'green stalk of corn' O.Pers. *tauma-* 'family' for **tauxmā-*, cp. Skr. *tōk-man-* n. 'green stalk of corn' (older than *tōk-ma-s*) Avest. *taox-man-* n. 'seed, kernel, offspring'; the O.Pers. *tau-mā-* however should perhaps be explained otherwise, see § 117 under Aryan. Skr. *āj-ma-s* 'path, course' (beside *āj-man-* *j-mān-*, which mean the same): Gr. *ᾠ-μο-s* 'path' (with prothetic *ō-*?). Skr. *ā-ma-s* *ō-ma-s* 'helper, companion' beside *ō-mān-* 'help, support', compared with *āva-ti* 'he helps'. *bhī-mā-s* 'terrible', cp. Lith. *bái-m-ė* 'fear'. *tig-mā-s* 'sharp'. *ruk-mā-s* 'shining, ornament'. *yudh-mā-s* 'fighter': cp. Gr. *ὑσμίτη* 'fight, battle' from **ύθ+σμι-* (cp. p. 173). *yug-mā-* 'even, forming a pair' neut. subst. 'pair'. *dar-mā-s* (beside *dar-mān-*) 'he who shatters'. *dhār-ma-s* (beside older *dhār-man-* n.) 'order, law, institution'.

It is secondary only in Skr. *dru-ma-* (see above p. 171) and *dya-mā-* 'clear, shining' from *dya-* *div-* 'brightness, day'.

Armenian. *arm-ukn* 'elbow', *jm-erū* 'winter', *jerm* 'warm', see above under Idg., p. 171.

Greek. *λι-μός-s* 'hunger' *λοι-μός-s* 'plague, pestilence': cp. Skr. *srt-ma-s* 'nightly spectre' from *√slej-* 'hurt'. Substantives with the strong-grade of the root-syllable are not uncommon: *ὄρ-μη* 'onset': Skr. *sār-ma-s* 'flow, flowing' perhaps also O.H.G. *stur-m* 'storm, fight' (*stur-* for *st-*, cp. I § 580 p. 433 f.); *τόρ-μο-s* 'what is bored, a hole': O.H.G. *dar-m* O.Icel. *þar-m-r* 'intestine' (i. e. 'that which goes right through the body', or 'the channel through which the food passes'); *φλογ-μός-s* 'brand' (*φλέγω*); *πλοχ-μός-s* 'lock of hair' (*πλέκω*); *ὀλ-μο-s* 'cylindrical body, mortar' (*ἐλέω*); *ὄρ-μο-s* 'cord, necklace' (cp. *ἐρμα*); *λόχ-μη* 'thicket, bushes' (*λέχος*). Further we have examples with weak vocalism: *κρυμός-s* 'frost' (for **κρυσ-μο-*, beside *κρυσ-ταίνω*), *ἀρδ-μός-s* 'drink, drinking-place', *πταρ-μός-s* 'sneeze'. In forming abstract verbal nouns -μός- was very fertile,

e. g. *μνγ-μός-ς* *μνχ-μός-ς* 'groan' (beside *μέζω μέμεκα*), *ἰνγ-μός-ς* 'shriek' (beside *ἰδίζω*), *ὀδνρ-μός-ς* 'lamentation' (beside *ὀδδρόμαι*), *ἀρπαγ-μός-ς* 'plundering' (beside *ἀρπάζω*), *κηρῶγ-μός-ς* 'calling out' (beside *κηρῶσσω* — for the *γ* see I § 486 Rem. p. 359), *μερισμός-ς* 'division' (beside *μερίζω* — for the *-σ-* see below). Feminines of the same kind are: *πνγ-μή* 'fight with fists', *τῆ-μή* 'estimation, honour', *χαρ-μή* 'joy of battle, battle', *ἀκ-μή* 'edge, sharpness', *γνώ-μη* 'intent, opinion', *μνή-μη* 'memory', *ἐπιστή-μη* 'science'.

Sometimes we find *-τ-μο-* (cp. *-τ-μεν-* § 117): *ἐρε-τμός-ς* 'oar' beside *ἐρέσσω ἐρέ-της*, *ἐφε-τμή* 'injunction' beside *ἐφ-έ-της ἐφ-έ-τημα*, etc., cp. O.S. *brahtum* and the like, p. 175. More frequently *-θ-μο-* (cp. *-θ-μεν-* § 117): *ἀριθμός-ς* 'number' (no doubt connected with O.H.G. *ri-m* 'orderly succession, number'), *ἀρ-θμός-ς* 'tie', *στα-θμός-ς* 'standing-place, stall, posts' *στά-θμη* 'plumb-line', *ῥυθ-μός-ς* 'rhythmical motion', *κλαυ-θμός-ς* 'crying' *κηλη-θμός-ς* 'bewitching', *μητι-θμός-ς* 'wrath' etc., cp. *-θ-ρο-* *-θ-λο-* (§ 77).

-s-mo- according to Morph. Unt. I 81. occurs in *δασμός-ς* 'division' beside *δατέσμαι*, *ώσμός-ς* 'push' beside *ώθίω*, *ἀφλοισμός-ς* 'foam' beside *πέφλοισθα*, *ὀσμή* beside older *ὀδ-μή* 'smell', *σχισμός-ς* 'split' beside *σχίζω*, and in substantives in *-ισμός-ς* and *-ασμός-ς* connected with derivative verbs in *-ίζω* *άζω*, as *μερισμός-ς* *άκοντισμός-ς* *ένθοντισμός-ς*. Yet it may also be assumed (cp. Solmsen Kuhn's Ztschr. XXIX 123) that in such forms there was originally only *-mo-* (which would give us **δατμός-ς* **ώθμός-ς* *ὀδμή*); that then, where perfect forms in *-σμαι* *-σμεθα* *-σμενο-ς* (the *σ* came from *-σται*, *δέδασμαι* being formed on the model of *δέδασται*) occurred in the paradigm of the verb, the *σ* from these forms took the place of the explosive; and that afterwards, on the analogy of such words, the explosive was replaced by *σ* in other instances (e. g. *ὀδμή*). The occurrence of *-μο-* and *-σμο-* side by side in derivatives of these dental stems led to the substitution of *-σ-* for *θ* in several of the forms in *-θμο-* mentioned above, as *ῥυσμός-ς* instead of *ῥυθ-μός-ς*, *δυσμή* instead of *δυ-θμή*, *θισμός-ς* for (Lacon. and other dial.) *θε-θμός*. Cp. *-σμεν-* § 117.

-mo- is secondary in *δοῦ-μός* (p. 171), and also in the adjectives in *-μο-ς*, which were derived from *i*-stems; as *φύξιμο-ς* 'protecting, whither one can flee' (from *φύξι-ς* 'flight'), *βάσιμο-ς* 'that can be traversed, safe' (from *βάσι-ς* 'a going'), *λίσιμο-ς* 'that can be ransomed' (from *λίσι-ς* 'ransom'); on the model of these were formed *ἄλκιμο-ς* 'strong', *νόστιμο-ς* 'relating to one's return', *νόμιμο-ς* 'lawful' and others. It occurs also in *ἐτυ-μο-ς* *ἐτήτυ-μο-ς* 'true, genuine' (cp. *ἐτιός* for **ἐτεφο-ς*).

Italic. Lat. *lī-mu-s* 'crooked' *lī-mit-* 'crossway, dividing line, boundary', Osc. *līmītú[m]* 'limitum': the Oscan word cannot have arisen from **līmō-* (cp. *līxula*) which would have become **lismo-* in Oscan, and if this derivation is correct, it must have been borrowed from Latin. Osc. *eg-mo* 'rea', stem *eg-mā-*.

Lat. *lī-mu-s* 'grease, slime, mud': O.H.G. *lī-m* 'glue' *lei-m* 'loam'. *fi-mu-s* *fi-mu-m*: no doubt connected with Gr. *θύμο-ν* 'scented plant' (see I § 49 p. 41 f.). *ani-mu-s* *ani-ma*: Gr. *ἄνε-μο-ς* 'wind', cp. also O.Ir. *anim*, dat. *anmain*, 'soul'. *fa-ma*: Gr. *φή-μη* 'news, rumour'. *for-ma*: cp. Skr. *dhari-mān* 'figure'. *spūma* for **spōi-mā*: O.H.G. *fei-m* m. 'foam' (cp. § 66 p. 148).

Lat. *dūmu-s* (*dusmo in loco* Paul. Fest.), *rāmu-s* no doubt for **rād-mo-* ground-form **uŕd-mo-*, beside *rādx*, with other examples. The neuter is rare: *pō-mu-m*, *ar-ma*. There are a fairly large number of feminines: *lī-ma*, *rā-ma* (beside *rū-men*), *rī-ma*, *gem-ma* etc.

-mā- is secondary in *lacru-ma* *lacri-ma*: cp. Gr. *δάκρυ* 'tear'.

Old Irish. *le-m* m. 'elm' ground-form **l-mo-*: Lat. *ul-mu-s*, O.H.G. *el-m* O.Icel *al-m-r* 'elm'. *lā-m* f. 'hand': Gr. *παλά-μη* Lat. *pal-ma* O.H.G. *fol-ma* 'hand, flat hand'. *rī-m* f. 'number', *āram* f. 'number, counting' for **ad-rīmā* (cp. I § 623 Rem. I p. 469, § 634 p. 474 f.): cp. O.H.G. *rī-m* Gr. *ἀριθμός* p. 173. O.Ir. *gor-m* 'blue' Mod.Cymr. *gwr-m* 'dusky': Skr. *ghṛ-ṇō-mi* 'I shine'? (see Curtius Grdz.⁵ 494). O.Ir. *lua-m* 'celox': cp. Lith. *plau-s-ma-s* 'raft'.

Infinitival *nomina actionis* are formed with *-mā-*; as *cretem* 'faith, believing', *sechem* 'a following'.

Germanic. O.H.G. *bodam* m. 'bottom': cp. Gr. *πυθ-μην*

'ground, bottom', (cp. Kauffmann, Paul-Braune's Beitr. XII 537). Goth. *hái-mōs* pl. fem. 'villages, market-towns', O.H.G. *hei-m* 'dwelling': Lith. *kė-ma-s* 'village, farm' *kaim-yna-s* 'neighbour'. O.Icel. *strau-m-r* O.H.G. *strō-m* 'stream': we should doubtless add (with orig. *ou*) Lett. *strāu-m-e* f. 'stream', and (with *ā*) Thrac. *Στρού-μη* a town on the Lissos; compare with these **srey-men-* (§ 117). A.S. *far-m* 'a going, pressing forward' O.H.G. *far-m* 'boat': cp. Gr. *πορ-θ-μός* 'ferry'. O.H.G. *halm* 'stalk' O.Icel. *hal-m-r* 'straw': Gr. *κάλα-μος* 'reed, stalk', Lat. *cul-mu-s*, Lett. *sal-m-s* O.C.Sl. *sla-ma* f. 'stalk'; pr. Germ. **χalmo-* may represent either **kol-mo-* or **h̥l-mo-* (I § 306 p. 242 f.). O.H.G. *fadam* m. 'fathom, ulna' A.S. *fathmōs* pl. 'both outstretched arms' O.Icel. *faðmr* 'cord, fathom, embrace': cp. O.Cymr. *etem* 'fathom'. Goth. *dō-m-s* O.H.G. *tuo-m* 'sentence, trial, standing, worth': Gr. *θω-μός* 'stack', from *√dhē-* 'set, place'; beside it we have **dhē-men-* (§ 117).

Goth. *rū-m-s* 'room, roomy' O.H.G. *rū-m* m. 'room': cp. Avest. *rav-ah-* 'road, free way'. O.H.G. *scū-m* m. O.Icel. *skū-m* n. 'foam'. Forms with the 'high' grade of ablaut (*o*-grade in *-e*-roots) are far commoner. We may add O.H.G. *bar-m* O.Icel. *bar-m-r* 'womb' ('that which bears', *√bher-*); O.H.G. *zou-m* O.Icel. *tau-m-r* 'bridle, rein' pr. Germ. **tauzyu-mā-* 'that which pulls or is pulled', *√deyk-* 'ducere').

A smaller number of forms have *e* in the root syllable; von Bahder (Verbalabstr. 136 f.) assumes that these were originally *men*-stems; as O.H.G. *melm* m. 'dust' beside O.Icel. *malmr* 'metal' and Lith. *melmũ*, gen. *melmeñs*, 'nephritic stone'. Cp. further O.H.G. *atum* A.S. *athom* 'breath' pr. Germ. **ēp-ma-* (for the history of the original tenuis in Germanic see Kögel, Literaturbl. f. germ. u. rom. Phil. 1887 no. 3) beside O.Fris. *ēthma* 'breath', Skr. *āt-mān-* 'breath, soul'.

Several instances of *-t-mo-* occur (cp. Gr. *-τ-μο* p. 173), as Goth. *mái-þm-s* A.S. *mē-thom* 'present, jewel' beside Gr. *μοῖ-το-ς* 'thanks, payment', Lat. *mū-tuo-s*, Lith. *mai-na-s* 'barter'; O.Sax. *brah-tum* 'noise' beside O.Sax. O.H.G. *braht* 'noise'; O.H.G. *brā-dam* 'vapour, steam, exhalation' beside A.S. *brād*

f. 'vapour' (cp. Bremer, Paul-Br. Beitr. XI 279); O.H.G. *krā-dam* 'shriek' beside O.H.G. *hano-krat* 'cock-crow' (cp. Bremer loc. cit.); Mid.H.G. *bladem* 'wind' beside O.H.G. *blat* 'breath, fulness'.

Remark. The different explanation of the latter forms given by von Bahder, Verbalabstr. 144 does not convince me.

Balto-Slavonic. Lith. pl. *dū-mai* O.C.Sl. *dy-mū* 'smoke': Skr. *dhū-mā-s* etc., see p. 170 above. Pruss. *irmo* 'arm' (perhaps nom. sing. of an *n*-stem, like Lith. *-mā*) O.C.Sl. *ramo* beside *ramę* 'shoulder': Skr. *īr-mā-s* etc., see p. 171 above. Lith. *szāl-ma-s* 'helmet' (Pruss. *salmi-s*): Goth. *hilm-s* O.H.G. *helm* 'helmet', Skr. *śār-man-* n. 'shelter, protection, armour'; may we therefore assume Idg. **kōt-mo-* and **kel-men-*? O.C.Sl. *sramū* 'shame': O.H.G. *haram* O.S. *harm* 'insult, outrage'.

Lithuanian. Masculines are rare; *szār-ma-s* 'potash', *at-szłai-ma-s* 'fore-court' (✓ *kłej-* 'clinare'). Feminines are more common, as *tar-mā* (also *tarmē*) 'statement', *szar-mā* 'rime, frozen dew', *važ-mā* 'payment of fare'. On the other hand, there are many masculines formed with *-s-ma-*, as *garsma-s* 'call' from **gard + sma-* beside *gařsa-s* 'noise' from **gard + sa-s* (*gird-mi* *gird-žiū* 'I hear'), *varsma-s* 'the length of a furrow' for **vart-sma-*, *laūk-sma-s* 'bending', *vaūk-sma-s* 'pull, draught', *kaūk-sma-s* 'howl', *rėk-sma-s* 'roar', cp. also *-s-mē* in *drausmē* 'training', Lett. *drāusma* 'threat' beside Lith. *draudžiū* 'I protect, forbid', *bausmē* 'punishment' beside Lith. *baudžiū* 'I punish', *gėsmē* Lett. *dīlsma* 'song' beside Lith. *gėd-mi* 'I sing', etc. Adj. *szir-ma-s* Lett. *si'r-m-s* 'grey'.

-ima-s *-yma-s* form abstract verbal substantives from any given verb, as *sukima-s* 'a turning' from *sūk-ti* 'to turn', *sākyma-s* 'saying' from *suký-ti* 'to say'. How (i. e. from what model) this group of forms took its rise is doubtful; cp. also *jaunima-s* 'the dance of youth, company of young folks' from *jáuna-s* 'young', *minkszłima-s* 'soft part of bread' from *minkszta-s* 'soft'.

Secondary: *tóli-ma-s* 'distant' from *tolì* adv. 'afar', *arty-ma-s* 'near' from *artì* adv. 'near'.

The secondary suffix *-ūma-s* forms abstract substantives.

This arose in forms like *gražū-ma-s* 'beauty' from *gražū-s* 'beautiful', on the model of which were formed such words as *sausūma-s* 'dryness' from *sausā-s* 'dry'. By the side of this we find *-umā* used to denote some part of the land, as *lygu-mā* 'a level place' (beside *lygū-ma-s* 'levelness, the being level') from *lygu-s* 'even, level', *sausumā* 'dry place'.

O.C.Sl. *kos-mū* and *kos-ma* 'hair'. *u-mū* 'thought, understanding', no doubt connected with Skr. *av-* Lat. *avēre* and therefore similar in formation to Skr. *ō-ma-s* 'helper' (p. 172). *glu-mū* 'sport, scena' *glu-ma* 'licentiousness'. *-s-mo-* is the suffix in *usmū usma* 'indumentum, corium', if the word is connected with *ob-u-ti* 'to cover the feet'.

§ 73. The Suffix *-tymo-* *-tymā-*, forming superlatives. We may analyse it as *-tymo-*, and the second element *-ymo-* is itself a superlative suffix (§ 72, 2 p. 166 ff.). As a single indivisible suffix, *-tymo-* must have been rare in the Indo-Germanic period.

-tymo- is linked with the comparative *-tero-* (§ 75) in the same way as *-ymo-* with *-ero-*, cp. Goth. *af-tuma*: O.H.G. *af-tro aftero* and Skr. *ap-amā-s*: Skr. *áp-ara-s* Goth. *afar*, further Skr. *ut-tamā-s*: Skr. *ūt-tara-s* Gr. *ύα-τερο-ς* and A.S. *ūt-em-est* (an extension of an original **at-ema*): Skr. *ud-arā- ūd-ara-* ('belly') O.H.G. *ūz-ro*. *-tero-* however had become an independent suffix earlier than *-tymo-* and it appears from the evidence of the different languages that it was widely used even in the proethnic period.

Indo-Germanic. **trikṃt-tymo-* or **trikṃt-tymo-* 'tricesimus': Skr. *triṣat-tamā-s* (i for ī is hysterogenous) Lat. *tricēsimu-s* *tricēsimu-s* (*-s-* for *-ss-*, see I § 501 p. 367 f.): compare (and contrast) Gr. *τριάκοστός* i. e. *τριάκοστ+το-*. Similarly Avest. *visqstema-* (Skr. *viṣati-tamā-s*) 'vicesimus' Lat. *vīcēsimu-s* *vīcēsimu-s*: compare and contrast Gr. Att. *ἑξήκοστός* Boeot. *Fixakóτος* (I § 238 p. 199 f., § 501 p. 367 f.).

Skr. *án-tama-s* 'innermost, nearest, intimate', Lat. *in-timu-s*: cp. the comparative Skr. *án-tara-s* 'inner' Gr. *ἐν-τερο-ν* 'entrails', Lat. *inter-ior*, beside Gr. *ἐν* and Lat. *in*; beside these we

have Gr. ἐν-τός Lat. *in-tus*, so that we may fairly compare the relations of Skr. *adh-amā-s* : *ádth-ara-s* : *adh-ás* and **pṛ-mo-* (Lith. *pārma-s* Goth. *fruma*) : **pṛr-ós* (Skr. *purás* Avest. *parō* Gr. *πάρος*). Avest. *ni-tema-* 'lowest, smallest', A.S. *neo-ðem-est* 'lowest, undermost': cp. the compar. Skr. *ni-tarām* A.S. *ni-ðer-ra*.

Skr. *ka-tamā-s* 'which (of several)?', Lat. *quo-tumus* beside *quo-tu-s*: cp. compar. Skr. *ka-tará-s* Gr. *πό-τερο-ς*.

Aryan. Skr. *pra-thamā-s* Avest. *fra-tema-* O.Pers. *fra-tama-* 'primus' (the *th* of the Skr. form follows *cathur-thā-* and the like) beside the compar. Skr. *pra-tará-m* Avest. *fra-tara-*; Gr. *πρό-μο-ς* Umbr. *pro-mo-m* Goth. *fra-m* § 72, 2 p. 167 show a more ancient formation. Skr. *sahasra-tamā-s* Avest. *hazavrō-tema-* 'millesimus', Skr. *śata-tamā-s* 'centesimus', *aśīti-tamā-s* 'octogesimus' etc. The feminines of these numerals have in Sanskrit *-tam-ī* instead of *-tamā*.

Skr. *ut-tamā-s* 'highest, uppermost, best' Avest. *us-tema-* 'outermost', beside Skr. *úd* 'up, out' compar. *úttara-*: cp. Gr. *ὑστ-ερο-ς* 'latest' compar. *ὑσ-τερο-ς*.

Even in proethnic Aryan *-tama-* was the regular superlative ending for adjectives whose comparative was formed with *-tara-*. Where it was added to *a*-stems, their final *-a-* was in Avestic almost entirely replaced by *-ō-*; cp. the same phenomenon in compounds, as *daēvō-dāta-*, § 25 p. 42. Skr. *yajñiya-tama-* Avest. *yesnyō-tema-* 'most honourable', Skr. *ugra-tama-* Avest. *uyrō-tema-* 'strongest, mightiest'. Some words however have *-a-* in Avestic, e. g. *aiwyāma-tema-* 'most helpful'. Skr. *vāhni-tama-* 'carrying best', Avest. *hubaoidi-tema-* 'with sweetest scent or perfume'. Skr. *ama-vat-tama-* Avest. *ama-vas-tema-* 'most violent, strongest, mightiest'. Skr. *mīdh-úṣ-tama-* 'most gracious', Avest. *jaymuš-tema-* 'most helpful'. Skr. *vṛṣan-tama-* 'manliest, strongest'.

-tama- is sometimes added as an intensive suffix to superlative forms in (Ar.) *-īṣtha-*, as Skr. *śrēṣṭha-tama-* from *śrēṣṭha-* 'brightest, most glorious', Avest. *vahištō-tema-* from *vahišta-* 'best'.

It was affixed to substantival stems, as Skr. *mātṛ-tama-* 'most motherly', Avest. *daēvō-tema-* 'most devilish'.

Skr. *ku-tamā-* 'which (of several)' beside *ká-tara-* 'which (of two)', interrogative. *ya-tamā-* 'which (of many)' beside *ya-tarāf* 'which (of two)', relative.

Italic. *vīcēsīmu-s* *trīcēsīmu-s*, see p. 177 above. Later analogical forms are *cent-ēsīmu-s* *mill-ēsīmu-s* *mult-ēsīmu-s*.

in-tīmu-s, *ex-tīmu-s*, *ci-tīmu-s*, *ul-tīmu-s*. *dex-tīmu-s*, *sinis-tīmu-s*. *mari-tīmu-s*, *fini-tīmu-s*, *lēgi-tīmu-s*, originally meaning 'most closely connected with the sea, with a boundary, with law'. *op-tīmu-s*, in inser. also *opi-tūmu-s* (differently regarded by von Fierlinger in Kuhn's Zeitschr. XXVII 478, who derives it from a verbal stem *ō-pet-* 'strive after, wish'). *sollis-tīmu-s*. Umbr. *hon-domu* 'infimo' beside compar. *hon-dra* 'infra' Osc. hu[n]truis 'inferis', beside Lat. *humu-s*, see I § 207 p. 174.

-simo- occurs as well as *-tīmo-*, but its *-s-* cannot be derived from *-t-* merely by phonetic change. *maxīmu-s*, archaic *ōximē* (beside *ōcissimē*), *medīoxīmu-s* (cp. *medioc-ri-s*). The most common ending is *-is-sīmu-s* (cp. *sollis-tīmu-s*), which no doubt drove out an older *-is-to-s* (§ 81), as *pot-issīmu-s*, *alt-issīmu-s*. *-issīmo-* was also added to superlatives with intensive force, especially in later times, e. g. *postrēm-issīmu-s*, *minim-issīmu-s*. It is added to the stems of substantives in the language of the comedians, as *patru-issīmu-s*. But it is doubtful whether the formation with *-simo-* *-issīmo-* is in any way connected with *tymo-*.

Remark. In Morph. Unt. III 135 I explained these forms as modelled upon the *-ens(s)imo-* of the numerals. We might also with Osthoff (Zur Gesch. d. Perf. 542) regard *pessīmu-s* beside *pēfor* as another form that served as a type for the new development in *-issīmo-*, since the *ss* in this word as well as in the numerals arose by a regular phonetic process, whether we accept Corssen's or W. Schulze's derivation (see Osthoff *loc. cit.*, Schulze, Kuhn's Ztschr. XXVII 426, Stolz Lat. Gr. p. 220). On the other hand, Stolz (*loc. cit.*) holds that *-simo-* was taken from **plūsīmo-* (*plūrīmo-*) before the law of rhotacism came into operation. According to § 72 p. 168 we could also regard forms like **pulcr-is-emo* **pulcr-semo-* as prototypes of the formation. Danielsson on the other hand (Pauli's Altital. Stud. III 153. 192) starts from the two words *maximus*, *oxime*, which he analyses *macs-īmo-* *ōcs-īmē*, regarding the first elements as comparative stems for **mahis-*, **ōcis-* (cp. *plor-umē* *plūr-īmu-s* and the like § 72 p. 168), and supposing that it was these forms which led to the analogical

change of -istimo- to -issimo-. Danielsson compares with these forms Umbr. Osc. *nesimo-* O.Ir. *nessam* 'next' (beside the compar. O.Ir. *nessa*). But the assumption of syncope, which is required by the supposed forms in -is-ημο- (*mah-is-ημο-, *ōc-is-ημο-) cannot be allowed without considerable hesitation (see p. 168); hence it is very doubtful whether Danielsson's explanation of *maximu-s* etc. can be allowed. Can **neks-* and Lat. **max-* contain the weak form of an old *es*-stem (cp. Skr. *māhas-* 'greatness' *māhās-* 'great')? The whole question needs further investigation.

Germanic. What was said of -uma- (§ 72, 2 p. 169) also applies to the inflexion of -tuma- and its meaning in Gothic. Goth. *af-tuma* 'hinder, hindmost, latter, last', A.S. *æf-tem-est* 'hindmost'. Goth. *hin-dum-ists* 'outermost' A.S. *hin-dema* 'hindmost, last'. Goth. *if-tuma* 'next': Gr. *ἐν* 'on, to'. A.S. *neodem-est*, see p. 178 above.

§ 74. The Suffix -ro- -rā-, -pro- -prā-¹⁾.

On the variation between -pro- and -ro- see I § 287 p. 229.

This suffix was both primary and secondary from the earliest period; but the latter use is comparatively rare.

In its primary use the root syllable has generally the weak grade of ablaut; as we should therefore expect, the accent falls on the suffix, e. g. **spa-ró-*. Sometimes we have a variation of ablaut in the root, as Skr. *chid-rá-s* 'perforated': Lith. *skėd-rà* 'splinter'; Gr. *ἰθ-αρό-ς* 'clear, bright': *αἶθ-ρᾱ* 'bright weather'; Gr. *ἰδ-ρό-*: Lett. *swid-rī* pl. 'sweat'; O.H.G. *bitt-ar*: Goth. *bait-r-s* 'bitter'; O.H.G. *munt-ar* 'cheerful': O.C.Sl. *mqd-rŭ* 'wise'.

In some words -ro- seems to be connected with the -r -r̄ ending of the nom. acc. neut. (§ 118); cp. e. g. Idg. **ud-ro-*: Gr. *ῥδ-ωρ* O.H.G. *wazz-ar*; Gr. *πῑε-ρό-ς* *πῑα-ρό-ς* 'fat': *πῑαρ* 'fat' (subst.); *ἡμέ-ρᾱ*: *ἡμᾶρ* 'day' (cp. also Armen. *aur*, gen. *avur*, 'day'); Gr. *ῶ-ρο-ς* Goth. *jē-ra-* 'year': Avest. *yā-r* 'year' (for further examples see Morph. Unt. II 232). It is also connected with -er- (§ 119), cp. e. g. Idg. **us-ro-*: Skr. *uś-ár-* 'early light' Gr. *ἡρ-* 'in the early time' from **aus-er-*; Gr. *αἶθ-ρᾱ*: *αἶθ-ῆρ*

1) H. Osthoff, Über -ra- -la- als instrumentales suffix der indogerm. Sprachen, Forschungen I 157 ff. G. Curtius, De adjectivis Graecis et Latinis litterae formatis, Leipz. 1870.

'the pure light of heaven'; further with the comparative *-(t)ero-* (§ 75).

This suffix formed adjectives and substantives both in the proethnic and in later periods of Indo-Germanic; the substantives were chiefly concrete. In the separate languages *-ro-* was rarely fertile to any great extent; Gr. *-η-ρο-* in *νοηρός* etc. is an exception.

Indo-Germanic. **rudh-ró-* (in Skr. *-gró-*) 'red': Skr. *rudh-irá-s*, Gr. *ῥοῖ-ρός*, Lat. *ruber rub-ra*, O.Icel. *roð-ra* f. 'blood', O.C.Sl. *rūd-rū*. **sk(h)id-ró-* and *-gró-*: Skr. *chid-rá-s* 'perforated' *chid-rá-m* 'hole, interruption, break' *chid-irá-s* 'axe, sword', Gr. *συν-αρός* 'thin, weak, breakable', O.H.G. *scet-ar* 'thin, defective', Lith. (with a different grade of ablaut) **kēd-rā* 'splinter'. **spə-ró-* from $\sqrt{\text{spē-}}$ 'to expand' (Lat. *spēs spatium* &c.): Skr. *sphi-rá-* 'fat, great, rich', Lat. *pro-sper -spera* (for **-spa-ro-*, like *réd-dere: dāre*, see I § 97 p. 91), O.C.Sl. *spo-rū* 'rich'. Skr. *iṣ-irá-s* 'quick, lively, fresh', Gr. Hom. *ἰρός* Lesb. *ἴρο-ς* for **ἰσ-ρο-* (Lesb. *ἴρο-ς* beside *ἴρρο-ς*, like gen. *μῆν-ος* beside *μῆρ-ος* and the like) and Coreyr. *ἰαρός* Boeot. *ἰαρό-ς* for **ἰσ-αρο-* 'lively, fresh, strong, healthy'; for Att. *ἰερός*, see below. Skr. *us-rá-s* 'belonging to the morning' beside *us-r-tyā* 'brightness', Gr. *ἄρχ-αυρο-ς* 'near morning' (adj.) *αὔρ-ιο-ν* 'on the morrow' for **avσ-ρο-* (**aus-* or **ays-*); cp. also Lith. *ausz-rā* 'red of the morning', whose *sz* no doubt was borrowed from *aũszo* 'it dawned' (cp. I § 414 Rem. p. 303 f.). **ud-ro-* (in Gr. also *-pro-*) beside Skr. *ud-án-* 'water': Skr. *an-udrá-s* 'waterless' *sam-udrá-s* 'billowy, the sea', Gr. *ὑδ-αρός* 'watery' *ἄν-υδρο-ς* 'waterless'; and meaning a 'water-creature', Skr. *ud-rá-s* 'a creature that lives in water', Gr. *ἰδ-ρο-ς* *ἰδ-ρᾶ* 'watersnake' O.H.G. *ott-ar* O.Icel. *ot-r* 'otter', Lith. *úd-ra* O.C.Sl. *vyd-ra* 'otter'. Skr. *vī-rá-s* 'man, hero', Lat. *vi-r*, O.Ir. *fe-r* Goth. *vaí-r* Lith. *vý-ra-s* 'man'. **aġ-ro-s* 'pasture, level meadow, field' from $\sqrt{\text{aġ-}}$ 'drive': Skr. *áj-ra-s* Gr. *ἀγ-ρός* Lat. *ag-er* (gen. *ag-rī*) Goth. *ak-r-s*.

-ro- in secondary use. **teməs-ro-* 'dark' (the neut. or fem. can be used as an abstract subst., see § 158) beside Skr. *tám-as-* n. Lith. *tam-s-à* f. 'darkness': Skr. *tamis-ra-m* *támis-rā*

'darkness, dark night' Avest. *taḥ-ra-* for **tams-ra- *tansra-* 'dark' ¹⁾, Lat. *teneb-rae* pl. (cp. I § 570 p. 429), Mid.Dutch *deemster* (*-as-ro*) O.H.G. *dinstar* (*-s-ro-*) 'dark' with parasitic *-t-* (I § 580 p. 433 f.), Lith. *tīms-ra-s* 'light bay coloured' of a horse (the root has the weak grade of ablaut).

Beside Skr. *pī-van-* Gr. *πί-(f)ων* 'fat' (adj.) and Skr. *pī-vas-* n. 'fat' (noun) we must recognise Idg. **pī-me-ro-* 'fat' (adj.): Skr. *pīva-rā-* Gr. *πίε-ρό-ς* (fem. *pīva-rē*, *πίερα* for **πίερα-ια*), cp. also Gr. *πίο-της* *πίο-τερο-ς*; for *πίερό-ς* see below. Similarly Gr. *ἡ-μέ-ρᾱ* 'day' compared with the stem *ἡ-μεν-* implied in the pl. *ἡ-μα-τα*. For the *-e-* of these compound suffixes *-me-ro-* *-me-ro-* cp. Gr. *φοβε-ρό-ς* 'fearful', from *φόβο-ς*, etc. (Skr. *phēna-la-s* 'foamy' from *phēna-s* 'foam'). But *-ro-* can hardly be secondary in Gr. *πτε-ρό-ν* 'feather, wing' Skr. *pat-a-rā-* 'flying' Avest. *pat-a-ra-*, which is implied in *hu-patar'ta-* 'well winged', (contrast **petrā* 'feather' in O.Icel. *fjodr* O.H.G. *fedara*); it is far more likely that here, as in Skr. *pāt-a-tra-m* 'wing', *-e-* is the 'thematic vowel' (cp. Gr. *πτε-σθαι*, *πίτε-σθαι*); cp. also Gr. *σχε-ρό-ς* 'continuous' beside *σχε-τερό-ς* *σχε-τέ-αι-ς* *σχε-τέ-ς*. It is quite possible that originally *-e-ro-* was always a primary suffix, and only became secondary when it was popularly connected with nominal *e- : o-* stems.

Aryan. Since Idg. *r* and *l* are indistinguishable in the Aryan languages (I § 254 p. 207 f.), it is often difficult to separate *-ro-* and *-lo-*. In some cases the meaning vouches for *-lo-*, e. g. *vr̥ṣa-lá-s* 'mannikin, small man' (see § 76). Often the other languages give us a criterion, since in them Idg. *l* and *r* remained distinct.

Skr. *śū-ra-* Avest. *sū-ra-* 'strong, grand': Gr. *ἀ-νῶρο-ς* 'weak, ineffective'. Skr. *jī-rá-* 'lively, quick, active' Avest. *pouru-jīra-* 'very active' *daēma-jīra-* 'quick of eye, with quick

1) If this explanation of the Avestic word is correct, we might compare the *p̥* with the same sound in *aiwi-pūra-* from *sūra-*, (see Bartholomae Hdb. § 144). No other example of *-nsr-* *-nsr-* appears to occur, and thus there can be little serious objection to our assuming that it was just in this group of consonants that *p̥* was regularly developed.

eyes': Lat. *vi-reō* 'be fresh, strong, green', O.C.Sl. *žī-rŭ* 'pasture', Lett. *d/t-ras* pl. f. 'banquet'. Skr. *ud-rā-* Avest. *ud-ra-* m. a water animal: Gr. *ūd-ro-s* etc., see p. 181 above. Skr. *cit-rā-* 'shining, glorious, wonderful' Avest. *ciṣ-ra-* 'wonderful': O.H.G. *heit-ar* 'shining, clear, bright'. Skr. *śubh-rā-* 'shining, fine': Armen. *surb* 'pure'; no doubt the suffix is the same in Skr. *śuk-rā śuk-lā-* 'clear, pure' Avest. *suz-ra-* 'flaming, red' O.Pers. *ḫux-ra-* proper name. Skr. *váj-ra-s* Indra's thunderbolt, Avest. *vaz-ra-* 'club' O.Pers. *vazra-ka-* 'great, mighty', beside Skr. *vāja-* Avest. *vāza-* m. 'strength': cp. O.H.G. *uohh-ar* O.Icel. *vak-r* 'lively, quick, fresh, alert' and Goth. *vōk-r-s* 'profit' O.H.G. *uuoḥh-ar* 'increase, gain, profit'. Skr. *am-lā-* and *ambla-* (I § 199 p. 167 f.) 'sour': Dutch *amper* 'sharp, bitter' O.Icel. *apr* 'sharp' O.H.G. *ampfarō* 'sorrel' (adj. used as subst.) no doubt for pre-Germ. **am(b)-ro-*, cp. also Lat. *am-āru-s*.

Skr. *śīth-irā-* *śīth-ilā-* 'loose, unsteady': Gr. *χαθ-αρό-s* 'open, free, pure'. Skr. *mand-irā-m* 'lodging, dwelling, room, house' Gr. *μάνδ-qa* 'fold, pen, stall'; Skr. *mand-urđ* 'stable' either has *-urā-* for *-prā-* (cp. however I § 290 p. 231 f.) or may be an extension of a stem **mandu-*.

With Skr. *pata-rā-* 'flying' (see p. 182) compare *drava-rā-* 'running', *ny-ōca-rā-* 'suited to, belonging to a place'.

-ro- in secondary use: Skr. *tamis-ra-*, *pīvarā-*, see above, p. 181 f. *vy-ad-varā-* 'gnawing, rodent' beside *ad-van-* 'eating': cp. Hom. *ἔδφαρ* (*ēdaph*), gen. *ἔδφαρος*, 'food'.

Examples of Aryan words with *-ra- -la-*, which, so far as we can tell, may represent either *-ro-* or *-lo-*, are given in § 76 Rem. 1.

Armenian. *surb*, gen. *srboy*, 'pure' for **sub-ro-s* (I § 263 p. 214): Skr. *śubh-rā-s*. *Ḫirtn*, gen. *Ḫrtan* 'sweat' for **ḱitr-an-*: Gr. *ιδ-ρό-* Lett. *swid-ri* pl. 'sweat'. *tu-r* 'gift': Gr. *δῶ-ρο-v* O.C.Sl. *da-rŭ* 'gift'.

The *-aro-* of adjectives in *-ar*, which no doubt comes from *-pro-*, appears to be sometimes primary, sometimes secondary. It is primary e. g. in *dal-ar* 'green, fresh' (cp. Gr. *δαλε-ρό-ς*), and secondary e. g. in *ard-ar* 'just' (cp. Skr. *ṛ-tā-*). *mecar-em*

'I exalt, praise' a denominative verb like Gr. *μεγαίρω* 'I rate highly, admire' (from **μεγαρο-*, cp. *μέγαρον* 'large space, chamber').

Greek. *ελαφρός* 'light, brisk': O.H.G. *lung-ar* 'quick, active', common ground-form **h₂ogh-ró-s*. *ἄκρος* 'pointed' *ἄκρον* *ἄκρᾱ* 'point, peak': Skr. *catur-aśra-* 'four-cornered', O.C.Sl. *os-t-rŭ* 'sharp'. *ζωρός* 'unmixed' (of wine), *ἐνεργής, ταχύς* (Hesych.): no doubt to be compared with O.C.Sl. *ja-rŭ* 'amarus, iratus' Serv. *jara* 'heat of a stove'. *ἀφρός* 'foam': Skr. *abh-rā-m* 'cloud' (cp. also Lat. *imber* gen. *imbris* in the *i*-declension), common ground-form **h₂bh-ró-*; beside this *ὄμβρος* 'rain' with Idg. *b* like Skr. *ámh-u-* 'water', see I § 469, 8 p. 346 f. *κάπρος* 'boar': Lat. *cap-er cap-ra*, O.Icel. *haf-r* 'he-goat'. *νεφρός* 'kidney, testicle': Ital. Praenest. *nefr-ōn-es*, Lanuv. *nebr-undin-es* 'kidneys testicles', O.H.G. *nior-o* 'kidney, testicle' O.Icel. *nȳr-a n.* 'kidney' (I § 443 p. 329), common ground-form **negh-ró-*. *ἐδρᾱ* 'seat': O.Icel. *set-r n.* 'seat'. *λαμπρός* 'shining'. *σαπρός* 'rotten'. *φαιδρός* 'beaming, happy'. *νεκρός* 'corpse'. *τάφρος* 'ditch, trench'. *κόπρος* 'dung'. *τέφρᾱ* 'ashes'.

Adjectives were formed in proethnic Greek in *-ρός* (a fertile suffix) from verbs in *-έω*, as *πονηρός* 'toilsome' from *πονέομαι*, *ὀκνηρός* 'slack' from *ὀκνέω*, *ὀλισθηρός* 'slippery' from the fut. *ὀλισθήσω* (pres. *ὀλισθάνω*).

-tro-. *ἰαρός* beside *ἰρός* see p. 181 above. *λιπ-αρός* 'fat': cp. Skr. *rip-rā-m* 'smear, stain, impurity'. *σιν-αρός* beside *σιν-δρός* (for the *δ*, see I § 204 p. 170) 'harmful', and other examples.

-ro- is secondary in Att. (Aristoph.) *οἰζυρός* 'woeful' from *οἰζός*, gen. *οἰζνός* 'woe', and similarly in *λγυρός* beside *λγύς* 'clear, ringing' and *μωλυρός* beside *μῶλνς* 'enfeebled', unless these are derived from **λγυλο-* **μωλυλο-* (cp. *παχυ-λός* § 76) by dissimilation (I § 266 p. 215). Further, in many adjectives in *-ερος*; e. g. *φοβερός* 'terrible' from *φόβος*, *δροσιρός* 'dewy' from *δρόσος*, whose termination *-ερός* was regarded as an independent suffix, and added to other than *o*-stems, as *σκιερός* 'shady' from *σκιᾶ*, *κρατερός* 'strong' from *κράτος* n.; cp. p. 182.

-ro- can be considered either a secondary or a primary suffix in adjectives in *-αρος*, as *ὀδυνηρός* Dor. *ὀδυνᾶρός* 'painful'

beside *ὀδύνη* Dor. *ὀδύνᾱ* and *ὀδυνάω*, *ἀσχηρός* Lesb. *ἄσᾱρο-ς* 'causing disgust, disagreeable' beside *ἄση* Lesb. *ἄσᾱ* and *ἄσᾱω*, and in those in *-ῥο-*, as Hom. *ὀϊζύρο-ς* 'woeful' beside *ὀϊζύς* and *ὀϊζύω* (Att. *ὀϊζυρό-ς*, see p. 184 above), *ισχυρό-ς* 'strong' beside *ισχύ-ς* and *ισχύω*.

Remark. The relations of *-ερο-* and *-αρο-* are not quite clear in such instances as *ιερό-ς*: *ιαρό-ς* (Skr. *īṣ-irā-s*); *σμερό-ς* (from *σμεᾱ*): *σμεαρό-ς*; *πιερό-ς* (Skr. *pirarā-*): *πιαρό-ς* (see Morph. Unt. II 241 ff.). I should compare *πιαρό-ς* (and also *πιαλο-ς*) with *πιαίνω* for **πιμμη-ιῶ*, exactly as *μιαρό-ς* 'detiled' is to be derived from *μιαίνω*, so that the relation is the same as that of *θανυμ-τό-ς* (i. e. **θανυμ-το-ς*): *θανυμαίνω*. Then new formations arose, *ιερό-ς* (modelled upon *πιερό-ς σμερό-ς*) on the one hand, *σμεαρό-ς* (modelled upon *μιαρό-ς πιαρό-ς*) on the other.

Italic. Lat. *rub-er rub-ra*, Umbr. *rufru* 'rubros' *rufra* 'rubras': Gr. *ῥοφθ-ρό-ς* etc., see p. 181 above. Lat. *vi-r* gen. *vi-rī*, Umbr. *veiro* 'viros': O.Ir. *fe-r* Skr. *vī-ra-s* etc., see p. 181 above. Lat. *cap-er cap-ra*, Umbr. *kaprum* 'caprum': Gr. *κάπ-ρο-ς* etc., see p. 184 above. Lat. *ag-er* gen. *ag-rī*, Umbr. *agre* gen. 'agri': Skr. *āj-ra-s* etc., see p. 181 above. Lat. *sac-er sac-ra*, Falisc. *sacru* 'sacrum', Umbr. *sakra* 'sacras', Osc. *sak-o-oro* 'sacrum' *sak-arater* 'saceratur' (I § 627 p. 471). Lat. *mac-er mac-ra*: Gr. *μακ-ρό-ς* 'long, lean, far', O.H.G. *mag-ar* O.Icel. *mag-r* 'lean' pr. Germ. *mag-rā-*. Lat. *ob-scūru-s* 'dark', properly 'covered over': O.H.G. *skū-r* 'shelter, covered place, lodging'. Lat. *plē-ru-s plēri-que*: Gr. *πλήρ-ης* 'full', which is a modification of an older form **πλη-ρο-* (cp. *πληρόω*), but its accent, in contrast to the analogous *ὑδαρής* (: *ὑδαρό-ς*), followed that of compounds in *-ήρης* like *διήρης*. Lat. *pū-ru-s. dī-ru-s. clā-ru-s. gnā-ru-s* (cp. I § 253 p. 207). *in-ter* (cp. *intāctu-s*). *nig-er. glab-er* (we may conjecture that the original form of the stem was **gladh-ro-* or **gladh-ro-*, cp. O.C.Sl. *gladükū* 'smooth'). *scab-er. stup-ru-m. lab-ru-m* 'lip'. *scalp-er* and *scalp-ru-m. flag-ru-m*. At the same time in words where an *l* occurs before the suffix *-ro-*, it must be remembered that the latter may have come from *-lo-*, cp. *lu-crum* for **lu-clum* I § 269 p. 217. Sabin. *cuprum* 'bonum' *Cupra* 'bona dea', Umbr. *Cubrar* gen. 'Bonae deae', beside Lat. *cup-iō*.

No certain examples of -pro- can be found; perhaps it may be traced in Lat. *camur camura*, cp. Gr. *καμάρα* 'vault'.

-e-ro- occurs in Lat. *liber libera* O.Lat. *loeber-tātem*, which is usually compared with Gr. *ἐλευθ-ερος* (see I § 49 p. 42, § 65 p. 52), *puer* gen. *puerī*, *gener* gen. *generī*.

The relation of Lat. *amā-ru-s*: Skr. *am-lā-* 'sour' is obscure.

-ro- in secondary use. *teneb-rae*: Skr. *tamis-ra-* etc., see above p. 181 f. *cerebru-m* for **ceres-ro-*, cp. Skr. *śiras-* 'head'. *fūebri-s* instead of **fūnes-ro-*, transferred to the *i*-declension, beside *fūnus fūnes-tu-s*, see I § 570 p. 423, II § 93 under Italic. *membru-m membr-āna* for **mēms-ro-*: O.Ir. *mīr* 'piece of flesh' from pr. Kelt. **mēns-r...*, beside Skr. *māśā-* Goth. *mimza-* O.C.Sl. *męso-* 'flesh' (I § 570 p. 428, § 574 p. 430, § 585 Rem. 3 p. 440).

Old Irish. *sī-r* Mod.Cymr. *hi-r* 'lasting long' (comparative O.Ir. *sia*): Lat. *sē-ru-s*, common ground-form **sē-ro-*, beside Skr. *saya-s* 'late time, end'. *la-r* Mod.Cymr. *llaw-r* 'flooring, floor': A.S. *flō-r* 'floor' Mid.H.G. *vluo-r* 'level, floor'. *ar* Mod.Cymr. *aer* 'battle, fight' for **ag-ro-* (I § 523 p. 380): Skr. *ghasē-ajra-* 'attractive to the taste, creating appetite' Gr. *ἀγ-ρᾶ* 'game, prey', from √ *ag-* 'drive', cp. Idg. **ag-ro-* 'place where cattle are driven, field' which was formed from the same root, p. 181. *bod-ar* (acc. pl. *bod-ra*): Skr. *badh-irā-* 'deaf'. *mā-r* *mō-r* Mod.Cym. *maw-r* 'great' Gall. -*māro-* in *Virido-māru-s* and other proper names, beside the compar. O.Ir. *māo mō* 'greater': Gr. *ἐγχεσθ-μω-ρος* 'great or distinguished in throwing the spear', and the like (Bechtel, Über die Bezeichn. d. sinnl. Wahrnehm. 101; Osthoff, Paul-Braune's Beitr. XIII 431 ff.), common ground-form **mō-ro-*. *uar* Mod.Cymr. *oer* 'cold' pr. Kelt. **og-ro-*.

-ro- is secondary in O.Ir. *mīr*, see above.

Germanic. O.H.G. *sā-r* O.Icel. *sū-r-r* sour, 'bitter': Lith. *sū-ra-s* 'salt' (adj.) O.C.Sl. *sy-rū* 'raw'. O.H.G. *munt-ar* 'fresh, lively, hasty, Goth. *mund-r-ei* 'goal, object': O.C.Sl. *maq-rū* 'wise' (Lith. *mand-rūs* 'conceited, overbearing' instead of **mand-ra-s*). Goth. *gāu-r-s* 'troubled, sorrowful' beside *gāu-nōn* 'to sorrow, lament': Skr. *ghō-rā-s* 'horrible'. O.H.G. *weig-ar* 'teme-

rarius' pr. Germ. **uajz-rā-*, beside Goth. *veihan* 'to fight': Lith. *vik-rū-s* 'brisk, lively' instead of **vik-ra-s*. Goth. *jē-r* O.H.G. *jā-r* n. 'year': Gr. *ᾠ-ρο-ς* 'year' *ᾠ-ρᾱ* 'season' O.C.Sl. *ja-rū ja-ra* 'springtime', by the side of which we find Avest. *ya-r'* n. 'year', cp. Skr. *yā-ti* 'he goes, travels'. O.H.G. *fed-ara* O.Icel. *fjōð-r* f. 'feather' pr. Germ. **feþ-rō-*: cp. Gr. *πρ-ε-ρῶ-ν* etc., see p. 182 above. Goth. *skei-r-s* A.S. *skī-r* 'pure, clear' (: Russ. *ščiryj* 'pure', see I § 414 Rem. p. 303 f.). Goth. *fag-r-s* 'suitable' O.H.G. *fag-ar* 'fair' pr. Germ. **faz-rā-*, √ *pāk-*: cp. Umbr. *pacrer* pl. 'propitii' § 98. O.H.G. *hē-r* 'grand, exalted, sublime' pr. Germ. **χai-ra-*, no doubt to be compared with Goth. *hái-l-s* 'healthy'. O.H.G. *sē-r* 'painful, sore' O.Icel. *sā-r-r* 'sore, bad', Goth. *sái-r* O.H.G. *sē-r* n. 'pain' pr. Germ. **sai-ra-*. O.H.G. *zang-ar* 'biting, sharp' pr. Germ. **tanǵ-rā-*, cp. O.H.G. *zanga* 'tongs' Skr. *dāś-ana-m* 'a biting, bite'. O.H.G. *bā-r* m. 'dwelling' O.Icel. *bū-r* n. 'room, storehouse', beside O.H.G. *bū-an* 'build upon'. O.H.G. *scob-ar* m. 'stack, piled up heap of corn', √ *skeup-* *skeub-* 'shove, push': Lith. *skub-rū-s* 'hasty'. Goth. *skū-ra* f. 'shower, storm' O.H.G. *scū-r* m. 'shower'. O.H.G. *zunt-ra zunt-ara* f. O.Icel. *tund-r* n. 'tinder' beside O.H.G. *zant-ro zant-aro* m. 'glowing coal' O.Icel. *tand-re* m. 'fire' (pr. Germ. **tand-r-en-*). Goth. *lig-r-s* m. O.H.G. *leg-ar* n. 'couch'. O.H.G. *zimbar* n. 'timber, dwelling' A.S. *timbar* n. 'building', West Germ. **timbra-* for **tim-ra-*, Goth. *tim-r-jan* 'to do carpenter's work', √ *dem-*. O.H.G. *eit-ar* n. O.Icel. *eit-r* n. 'poison', beside Gr. *οἶδ-ος οἶδ-μα* 'swelling'.

-pro- pr. Germ. *-ura-* occurs perhaps in O.H.G. *ebur* A.S. *eofor* O.Icel. *jōforr* (pl. *jōfrar*) 'boar': cp. Lat. *ap-er* gen. *ap-rī*, O.C.Sl. *vep-rī* (stem *vep-r-je-*) 'boar'. *-e-ro-* is even more difficult to identify in Germanic.

-ro- is secondary in O.H.G. *dinstar* Mid.Dutch *deemster* 'dark': Skr. *tamis-ra-* etc., see above, p. 181 f.

Balto-Slavonic. Lith. *asz-t-rū-s asz-ru-s*, instead of **-ra-s*, O.C.Sl. *os-t-rū* 'sharp' (for the *-t-* see I § 544 p. 398 f., § 545 p. 400): Gr. *ακ-ρο-ς* etc., see p. 183 f. above. Lith. *pū-rai* pl. 'wheat' O.C.Sl. *py-ro* n. 'spelt': Gr. *πῦ-ρῶ-ς* 'wheat'. Lith. denomin. *szvit-r-inėti*

'to glimmer' *szvyt-r-ā-ti* 'to gleam': Skr. *śvit-rā-s* 'white'. Lith. *kup-rā* 'knob, boss': O.H.G. *hov-ar* A.S. *hof-er* m. 'knob'. O.C.Sl. *ved-rū* 'clear, bright' *ved-ro* n. 'fair wather': O.H.G. *wet-ar* n. 'weather', common ground-form **uedh-rō-*. O.C.Sl. *dob-rū* 'good': O.H.G. *taph-ar* Mid.H.G. *tapf-er* 'heavy, weighty, fast'. O.C.Sl. *da-rū* 'gift': Armen. *tu-r* Gr. *δῶ-ρο-ν* 'gift'.

Lith. *bud-rū-s* instead of **ra-s* O.C.Sl. *būd-rū* 'watchful'. *-ra-s* is seldom kept in adjectives in Lithuanian (e. g. *tik-ra-s* 'suitable'); they generally passed over into the *u*-declension; cp. § 107. In O.C.Sl. we have only a few adjectives, cp. besides those quoted above, *pīstrū* 'gay' for **pīs-rū* (like *os-t-rū*) from *✓peīk-*.

Lith. *stuōb-ra-s* 'aurochs'. *staōb-ra-s* and *stemb-r-ỹ-s* 'stalk'. *gaīs-ra-s* *gais-rā* 'distant gleam on the horizon', beside *gis-tu* 'extinguor' (cp. Leskien, Der Ablaut der Wurzelsilben im Lit. 65). O.C.Sl. *pi-rū* 'convivium'. *ra-rū* 'sonitus'. *mē-ra* 'measure'. *reb-ro* 'rib' (beside O.H.G. *rippi* n. 'rib', pr. Germ. **rīb-ja-*).

-ro- in secondary use: Lith. *tīms-ra-s* 'light bay coloured' (of a horse): Skr. *tamis-ra-* etc., see p. 181 f. above. Lith. *vidurỹ-s* 'middle', no doubt = *vidu-r-ja-* a derivative of *vidū-s* 'the inside', similarly *duburỹ-s* 'depth' from *dubū-s* 'deep and hollow'. It seems to me doubtful whether we should compare with these the *-ro-* of Lith. *nas-raĩ* pl. 'throat' O.C.Sl. *noz-dri* pl. 'nostrils' (beside Low Germ. *nuster* 'nostril' and Idg. **nas-* 'nose'), and of O.C.Sl. *mēz-dra* 'fine skin on a recent wound, the fleshy part of anything' (beside *mēso* 'flesh'), cp. I § 585 p. 439.

§ 75. The Suffixes *-ero-* *-erā-* and *-tero-* *-terā-*, forming Comparatives.

These are closely parallel to the superlative *-mo-* *-mmo-* (§ 72, 2 p. 166 ff.) and *-tmmo-* (§ 73 p. 177 ff.).

-(t)ero- shows a close etymological relation to the adverbs in *-(t)er* and (loc.) *-(t)er-i*, e. g. **upero-* beside Gr. *ὑπέρ* Skr. *upāri*, **en-tero-* beside Lat. *in-ter* Skr. *antāri-kṣā-*. On the other hand *-(t)ero-* is often connected with *-ro-* (see § 74). Per Persson's suggestions for its etymology (*Studia Etymologica*, Upsala 1886,

p. 94 ff.) are more extensive, but for the most part exceedingly bold.

Beside *-(t)ero-* is found *-(t)oro-*, e. g. Avest. *ka-tara-* Goth. *hva-þar* O.C.Sl. *ko-tory-jŭ*, *-(t)ro-*, e. g. Skr. *an-trā-m* Gr. ἀλλό-*-τρο-ιο-ς* Lat. *in-trō* O.C.Sl. *ję-tro*, and *-(t)gro-*, e. g. Gr. νε(f)-*-αρό-ς* A.S. *eafora*¹⁾ The original distribution of these different grades of ablaut can no longer be traced; the difference of accent however should be noticed, e. g. Skr. *án-tara-* *an-trá-an-tári-kṣa-*.

-tero- shows the greatest fertility in Aryan and Greek, where it was a regular comparative suffix for adjectives.

Indo-Germanic. **upero-*, beside Skr. *upári* 'above' Gr. ὑπέρ, ὑπείρ (i. e. **upérē*, see I § 645, 2 p. 489) Lat. *s-uper* O.H.G. *ubir* 'over' (compare further Skr. *úpa* 'towards' Gr. ὑπό 'under' etc.): Skr. *úpara-* 'nearer, behind, under' Avest. *upara-* 'upper', Gr. ὕπερο-ς ὕπερο-ν 'pestle' ὑπέροα 'upper rope', Lat. *s-uperu-s s-uprā s-uprē-mu-s*, A.S. *ufer-ra* 'upper' (*-ra* = Goth. *-iza*); cp. superl. Skr. *upamá-s* Lat. *s-ummu-s*. **adhéro-* 'lower' beside Avest. *adairi* 'under' and Skr. *adhás* 'below': Skr. *ádharma-* 'lower', Goth. *undarō* adv. 'underneath' O.H.G. *undaro undero* 'lower'; cp. superl. Skr. *adhamá-s*.

**en-tero-* 'inner', subst. n. 'intestines', beside Lat. *in-ter* Skr. *antári-kṣa-* 'that which lies in between heaven and earth, sky': Skr. *ántara-s* 'inner, dearer, more intimate' *antrá-m antrá-m* 'intestine', Armen. *ęnder-k* pl. 'intestines' (possibly borrowed from the Greek), Gr. ἐντέρο-ν 'intestine', Lat. *inter-ior intra intrō*, O.Ir. *eter etir* 'between', O.C.Sl. *ję-tro* n. 'liver'; cp. superl. Skr. *ántama-s* Lat. *intimu-s*. **ni-tero-* 'lower': Skr. *nitardm* 'downwards, down', O.H.G. *nidaro* adj. 'lower'; cp. superl. Avest. *nitema-* A.S. *neodēm-est*. Avest. *fra-tara-* Gr. πρό-τερο-ς 'former,

1) *-tŕ* (cp. *-ter* beside *-tero-*) seems to occur in Skr. *sani-túr* 'beside, except, without' Gr. ἀ-τάρ 'sed' O.H.G. *sun-tar* 'by itself, especially, but, however' beside Skr. *sanu-tár* 'away, aside' Gr. ἄ-τερ 'without' (is the irregular *spiritus lenis* in ἀτάρ and ἄτερ due to the influence of ἀντάρ and ἐννύ?) A.S. *sun-dŕ* 'except, without'; cp. also Goth. *sun-drō* 'separated, alone'. The root-syllable of the Greek and Germanic words is **sŕ-*. Cp. Bugge, Bezzenger's Beitr. III 120 f.

earlier, beside Ouc. *pruter-pam* *ἡγοῦργον ἡ*, *prinsquam*: compare further Avest. *fra* Gr. *ἔρο* 'before'; cp. superl. Avest. *fra-tema-*.

**go-tero-* from the stem **go-* 'who?': Skr. *ko-tari-* Avest. *ka-tāra-*¹⁾ Gr. *κο-τερο-*, 'which of two?' Umbr. *podruk-pai* 'atrocque', Goth. *hea-far* 'which of two?' Lith. *ko-tris* 'which of two? which? who?' O.C.Sl. *ko-teri-jī* *ko-teri-jī* 'who?'; cp. superl. Skr. *ko-tamā-s*. Lat. *quo-tamē-s*.

It can hardly be an accidental coincidence that several Indo-Germanic languages have a word for 'left' which shows the suffix *-tero-* added to a stem formed with the comparative suffix *-jes -is-* (§ 135), and contains the idea of 'goodness' (cp. Gr. *εἰσέριμος*; 'left'). Avest. *sairyas-tāra-*, beside *sara-* 'desirable, excellent' compar. Skr. *rāriyas-*. Gr. *ἀριστερος*, beside *ἀριος* 'best' *ἀριος* 'better' (not connected with Ar. *rara-*). O.H.G. *winis-tar*, beside *wini* 'beloved' *wunsc* 'wish, desire'; cp. also, from the same root, Skr. *vāma-s* 'left', identical with *vāmā-s* 'worthy, dear, good', from a ground-form **vā-mo-s*, √ *yen-*. Lat. *sinis-ter*, which should surely be compared with Skr. *sān-īyas-* 'gaining more' √ *sen-* 'to reach a goal (which is striven after or longed for), to succeed' (see Kuhn's Zeitschr. XXIV 271 f.), and not with *senior* *seniu-m* (when the intermediate stage of meaning would be 'weak, incapable'); for the *i* of the first syllable cp. *simili-s*. One at least therefore of these formations must date from protoethnic Indo-Germanic, and at the time of the separation of the peoples must have still retained its original meaning as well as the secondary one of 'left', and so become the model for the rest. Cp. the Author, Rhein. Mus. XLIII p. 399 ff.

Aryan. Skr. *ādha-ara-* Avest. *ad-ara-* 'lower', see p. 189 above. Skr. *āp-ara-* 'more distant, later, smaller, other', *ap-arā-m* adv. 'later' Avest. *ap-ara-* 'the other' O.Pers. *ap-ara-m* adv. 'afterwards', beside Skr. *āpa* 'from, away': A.S. *af-era eafora* O.Sax. *abaro* m. 'successor, offspring' (Goth. *afar* 'after' O.H.G. *abur avar* 'again, anew; on the other hand, however');

1) The quantity of the *a* in the syllable *ka-*, if the law given in I § 78 p. 69 is correct, might be explained by reference to a by-form **katra-* in protoethnic Aryan (cp. the Ital. and Lith. forms).

with which compare O.Pers. *apa-tara-m* 'further' and Goth. *af-tarō* adv. 'backwards' *aftra* adv. 'back, anew, further' O.H.G. *aftaro* m. 'hinder part' A.S. *æftra* adj. 'hinder'. Skr. *áv-ara-s* 'lower' Avest. *aora* adv. 'down, off' (cp. Avest. *naotara-* = Skr. *navatara-* compar. from Skr. *níva-* 'new'), cp. Skr. *áva* 'off, downwards'.

Skr. *án-tara-* Avest. *an-tara-* 'inner' Skr. *an-trá-m* *án-trá-m* 'intestine': Gr. *ἐν-τερον* etc., see p. 189 above. Skr. *út-tara-* 'higher, upper' from *úd* 'up, out': Gr. *ὑπερον-ς* 'later' *ὑστρο-ς* 'belly'; beside this we have Skr. *ud-arā-* *ūd-ara-* 'belly, swelling' Gr. *ὄδερρον-ς* 'belly' Hesych. (probably Cyprian, with *o* = *u* as in *μοχοῖ* = *μυχοῖ* and other words), O.H.G. *ūzro* 'outer'. *-tara-m* is especially frequent in Aryan as an adverbial termination. Skr. *vi-tará-m* Avest. *vī-tare-m* 'further' (in Avestic also an adj.) beside Skr. *vī* 'away, apart': Goth. *vi-þra* adv. 'against, with-' (in composition); compare also Lat. *vi-tricu-s* 'stepfather', the termination being like that of O.H.G. *ent(ig)rig* 'strange' = **antrizá-s* from *ander* 'other'. Skr. *parā-tará-m* *paras-tará-m* 'further away' from *pārā* *parás* 'away, forth'. Instead of this later Sanskrit has generally *-tarā-m*, as *uccāis-tarām* 'higher' from *uccāiṣ* 'high', *śandais-tarām* 'more softly, more gradually', from *śandāiṣ* 'softly, gradually'.

Skr. *ka-tará-* Avest. *ka-tāra-* 'which of two?': Gr. *κό-τερον-ς* etc., see p. 190 above. Skr. *ya-tará-* Avest. *ya-lāra-* 'which (of two)' (rel.), beside Skr. *yá-s* 'qui'. Avest. *a-tāra-* from the stem *a-* 'that'.

-tara- was also the regular comparative ending of adjectives in Aryan where *-tama-* formed the superlative. The same rules of formation hold as for *-tama-*, see § 73 p. 178. Skr. *āmá-tara-s* 'more raw' from *āmá-s*: Gr. *ᾠμό-τερον-ς* 'more raw, more rude'; Skr. *yajñiya-tara-* 'more deserving of reverence'; Avest. *aka-tara-* 'worse' from *aka-*, *srīrō-tara-* 'nobler' from *srīra-*. Skr. *śrēṣṭha-tara-* 'more excellent' from superl. *śrēṣṭha-*, *garīyas-tara-* 'heavier, weightier' beside compar. *garīyas-*, Avest. *vairyas-tara-* 'left' see p. 190 above; cp. also Avest. *fratarō-tara-* from *fratara-* 'more prominent'. Skr. *duḥkha-tara-* 'more painful, more unpleasant',

and as subst. n. 'greater pain', from *duhkhā-m* 'pain'. Avest. *ušas-tara-* 'easterly' from *uśah-* 'red of the morning', *daoša-tara-* 'westerly' from *daoša-* 'evening'.

Armenian. *nor*, gen. *noroy*, 'new': cp. Gr. *νεαρός* 'young, youthful' ground-form **neμ-rō-s*, see p. 189 above; it is doubtful whether **neμ-rō-* was also the ground-form of the Armenian word. Gen. *mer* 'our' *jer* 'your' (nom. *me-ē* 'we' *du-ē* 'ye'): cp. O. Ir. possess. *ar n-* 'our' *far n-* 'your', Goth. *unsar* 'our' *izvar* 'your'; and further Gr. *ἡμέ-τερο-ς* *ὑμέ-τερο-ς*, Lat. *nos-ter* *ves-ter*.

ender-ē pl. 'intestines' cannot be quoted without suspicion, as it may perhaps have been borrowed from the Greek (*ἐν-τερα*), cp. p. 189.

Greek. *ὑπ-ερο-ς* 'postle': Skr. *ūpara-* etc., see p. 189 above. *ὄδ-ερο-ς* 'belly': Skr. *udará-* etc., see p. 191 above. *ἐν-εροι* 'inferi' (properly those within, those dwelling within the earth) from *ἐν* 'in', cp. also *ἐνέρ-τερο-ς* *νέρ-τερο-ς* 'deeper' beside *ἐνερ-θε* 'apud inferos' and *ἐν-τερο-ν* 'intestine'. *νεαρός* 'young, youthful': cp. Armen. *nor* (see above) and Lat. *noverca* meaning **ἡ νεαρικῇ*.

ἐν-τερο-ν 'intestine', see p. 189 above. *ὕστερο-ς* 'later'. *ὕστρο-ς* 'belly': Skr. *úttara-*, see p. 191 above. *πρό-τερο-ς* 'earlier': Avest. *fra-tara-*, see p. 190 above. Greek has many new formations modelled upon old comparatives derived, like these, from adverbs. *ὑπέρ-τερο-ς* 'higher' from *ὑπέρ*. *κατώ-τερο-ς* 'lower' from *κάτω*. *ὑψί-τερο-ς* 'higher' from *ὑψι*. *παροί-τερο-ς* 'more prominent' beside *πάρου-θε* 'before'. *μυχοί-τερο-ς* 'further back in the corner' (only *μυχοί-τατο-ς* is actually found) from *μυχοί* 'in the corner, inside'. *παλαι-τερο-ς* 'older' from *πάλαι*. *παλαι-τερο-ς* was referred to *παλαιός* and hence arose the forms *γεραι-τερο-ς* 'older' from *γεραιός*, *σχολαι-τερο-ς* 'more idle' from *σχολαῖος*, and when *-αιτερο-ς* further came to be regarded as an independent suffix, it produced the forms *ἡσυχ-αίτερο-ς* 'quieter' from *ἡσυχος*, *ἰδι-αίτερο-ς* 'more especially one's own' from *ἰδιος*, and many more. With the adverbial termination *-τέρω*: *άνω-τέρω* from *άνω* 'up', *πρῶω-τέρω* from *πρόσω* 'forwards', *ἐγγυ-τέρω* from *ἐγγύς* 'near', and many more.

πό-τερο-ς 'which of two?': Skr. *ka-tarā-s* etc., see p. 191 above. Dor. Boeot. etc. *ἄτερο-ς* 'one of two, the other' ground-form **ση-τερο-* from **sem-* Gr. *εἷς* 'unus' (cp. *ἄ-παξ* etc.); the Attic form *ἔτερο-ς* no doubt arose through an assimilation to the vowel of *έν-*, just as *ἐκατόν* 'a hundred' replaced **ἄ-κατον* for the same reason.¹⁾ *ἐκά-τερο-ς* 'each of two' beside *ἐκάς*, cp. Wackernagel in Kuhn's *Ztschr.* XXIX 150 f.

ἡμέ-τερο-ς 'our' *ὕμέ-τερο-ς* 'your': cp. Lat. *nos-ter* *ves-ter*.

The form *-τρο-* occurs in *ἄλλό-τρο-ιο-ς* 'belonging to another, strange'; tis extension by the suffix *-ιο-* is no doubt due to the form of its antithesis *ἰδιο-ς*.

-τερο- was also the regular comparative termination in adjectives whose superlative was formed in *-τατο-* (§ 81). *ὠμό-τερο-ς* 'more raw, more rude' from *ὠμός-ς*: Skr. *amā-tara-s*. *κουφό-τερο-ς* 'lighter' from *κούφος-ς*. *γλυκύ-τερο-ς* 'sweeter' from *γλυκύ-ς*. *πίό-τερο-ς* 'fatter' from *πίων -ονος*, *ἐπιλησμό-τερο-ς* 'more forgetful' from *ἐπιλήσμων -ονος*, cp. *πίό-της* and *ἀκμό-θετο-ν* (cp. § 12 p. 27, § 29 p. 49). *μελάν-τερο-ς* 'blacker', from *μέλας -ανος*. *χαριέστερο-ς* 'more charming, more gracious', i. e. **χαρι-φετ + τερο-*, from *χαρίεις -εντος*; *-φετ-* took the place of the regular phonetic *-φατ-* = Idg. *-mht-* (§ 127). *ἀχαρίστερο-ς* 'more ungraceful' i. e. **ἀχαριτ + τερο-*, from *ἄχαρις -ιτος*. *ἀληθέσ-τερο-ς* 'truer' from *ἀληθής* neut. *-ές*.

Comparatives with *ω* like *σοφώ-τερο-ς* 'wiser', from *σοφός-ς*, were formed from adverbs in *-ω* (cp. the Germanic comparatives in *-ðz-en-* formed from the instr. sing. in *-ð* § 81, and the Slavonic comparatives in *-ě-jŭ* which came from the instr. sing. in *-ě* § 135), and their use became gradually restricted to words in which the *ω* followed a short syllable. A few remaining examples of the freer use occur in literature, as *οἰζυρώτερος* (Hom.), *δυσποιμώτερος* (Eur.) and several others. The *-ο-* of *κενότιρος* *στινότιρος* in later Attic is a reminiscence of the early Attic forms **κενφό-ς* **στινφό-ς*, see p. 135 footnote.

1) A different explanation of *ἄτερο-ς* *ἔτερο-ς* is given by Per Persson, *Studia etymol.* p. 102; but his arguments do not convince me.

Brugmann, *Elements*. II.

-ωτερο-ς was sometimes grafted upon other classes of stems, e. g. *ἐπιχαριτ-ώτερο-ς* 'more charming' from *ἐπίχαρις*.

The termination *-εστερο-ς* (*ἀληθέσ-τερο-ς*) was very largely extended in use as an independent suffix, e. g. *εὐδαιμον-έστερο-ς* 'happier' from *εὐδαιμόν*, *ἄκρατ-έστερο-ς* 'more unmixed' from *ἄκρατος*, *ἐρρωμεν-έστερο-ς* 'stronger' from *ἐρρωμένος*.

Comparative suffixes were often combined. Parallel to *ἀρ-ισ-τερό-ς* (see p. 190) arose *λαλ-ίστερο-ς* 'more talkative' from *λάλο-ς*, *κλεπτ-ίστερο-ς* 'more thievish' from *κλέπτειν-ς*, *βλάκ-ίστερο-ς* 'lazier', from *βλάξ*, etc.; the spread of these double suffixes was furthered by the similar sound of the termination of *ἀχαρίστερο-ς* = **ἀχαριτ-+τερο-ς*, *ἀμεινότερο-ς* from *ἀμείνων* 'better', *ἀρειότερο-ς* from *ἀρείων* 'better' etc. *κυντερώ-τερο-ς* from *κύν-τερο-ς* 'more like a dog, more impudent', *ἐπερτερώ-τερο-ς* from *ἐπέρο-τερο-ς* 'upper', *προτεραι-τερο-ς* from *πρό-τερο-ς* 'earlier' (cp. Avest. *fratarō-tara-* p. 191), with other examples.

Comparatives are frequently formed from substantives. *κύν-τερο-ς* from *κύν* 'dog'. *βασιλεύ-τερο-ς* 'more royal' from *βασίλευς* 'king'. *δημό-τερο-ς* 'belonging to the people' from *δῆμος* 'people', *ὄρέσ-τερο-ς* 'of the mountains' from *ὄρος* 'mountain' and the like, where the comparative suffix, just as in *ἡμί-τερο-ς* Avest. *ušas-tara* O.H.G. *ni-daro*, only served to contrast the words with their opposites (cp. § 139).

Italic. Lat. *s-uperu-s s-uprā s-uprē-mu-s* Umbr. *subra* 'supra' Osc. *supruis* 'superis', beside Lat. *s-uper*, with the by-form *s-up-ter* (written *subter*), like O.H.G. *afstar* beside Goth. *afar* (for the *s-* of *s-up s-uper* see I § 568 p. 425): Skr. *ūpura-s* etc., see p. 189 above. For Lat. *īnferu-s īnfra*, which are usually connected with Skr. *ādharma-* Goth. *undarō*, see § 72 p. 167, under Aryan.

Lat. *in-ter-ior in-trā in-trō*, Osc. *entraī* dat. fem. 'intestinae', *ἐμπυλίων*: Skr. *ān-tara-* etc., see p. 189 above. Lat. *i-teru-m*, the stem of which is contained in Lat. *mātertera* (quasi *mater altera*) for **mātēr-itera*, Umbr. *etram-a* 'ad alteram': Skr. *i-tara-s* 'other', perhaps also Goth. *idr-eiga* 'repentance' O.Icel. *idra-sk* 'repent'. Lat. *ex-ter ex-trā* Osc. *eh-trad* 'extra', beside Lat. *ex*:

O.Ir. *echtr-ann* 'foreign, stranger'. Lat. *ci-ter ci-tra ci-trō*: Goth. *hi-drē* 'hither'. Lat. *pos-teru-s postrī-diē postrē-mu-s* Umbr. *postra* acc. fem. 'posteriores' Osc. *pústiris* 'posterius', from Ital. *pos post-*; it is perhaps better to analyse the word *post-eru-s*. Lat. *con-trā contrō-versia* Osc. *contrud* 'contra', beside Lat. *cum* Osc. *con*. Umbr. *hon-dra* 'infra' Osc. *hu[n]-truis* 'inferis', cp. Lat. *humu-s*, and Umbr. superl. *hon-domu* § 73 p. 179. Umbr. *pretra* acc. fem. 'priors', beside Lat. *prae-ter*.

Lat. *u-ter u-tra* (I § 431 Rem. 3 p. 321) Umbr. *podruh-peī* 'utroque' Osc. *pútúrús-píd* 'utrique' (for **potro-*, see I § 271 p. 218, § 627 p. 471): Skr. *ka-tará-s* etc., see p. 190 above. Lat. *al-ter altera altrín-secus* Osc. *alltram* 'alteram', beside Lat. *al-iu-s* (cp. § 63, 3 p. 132).

Lat. *nos-ter nostra*, *ves-ter vestra*, Umbr. *vestra* abl. 'vestra', Osc. *nistrus* 'nostros' (according to Bugge; 'propiores' according to Bücheler): cp. Gr. *ἡμέτερος ὑμέτερος*.

Lat. *dex-ter dextera* and *dextra*, Umbr. *destram-e* 'in dextram': cp. O.Ir. *Dechter* a woman's name (Zimmer, Kuhn's Ztschr. XXX 214) and Gr. *δεξι-τερός* 'dexter' (formed like *ῥηϊ-τερος*). Umbr. *nertru* abl. 'sinistro': Gr. *νέγ-τερος ἐνέγ-τερος* 'deeper' beside *ἐνερ-θε* (cp. p. 192); as to the meaning 'left', see Bücheler *Umbrica* p. 76 f.

Here perhaps should also be classed *palūs-ter*, from *palūd-*, *Nemes-tr-īnu-s*, from *nemus*, Volsc. *Veles-trom* 'Veliternorum', beside Gr. *ἐλός* 'low ground'; so also Lat. *campester terrester silvester* and the like, which are to be compared with the Gr. *ἐνθαλασσινός-τερος* (p. 194).

Combinations of comparative suffixes. *-is-tero-*: Lat. *sin-is-ter -tra* see p. 190, Lat. *magister magistrī* Umbr. *mestru* fem. 'maior', beside Lat. *magis* Osc. *mais* 'magis'; Lat. *minister ministrī* Osc. *minstreis* 'minoris', beside Lat. *minus*; cp. § 135. Lat. *inter-ior dexter-ior* and the like, Osc. *pústir-is*. Lat. *suprē-mu-s extrē-mu-s* and the like (cp. § 72 p. 168) and *postrē-m-issimu-s* (cp. § 73 p. 179).

Old Irish. *ar n- far n-* poss. 'our, your', orig. gen. pl.

like Lat. *nostrum vestrum*: cp. Armen. *mer jer* Goth. *unsar izvar*.¹⁾

in-a-thar Corn. *enederen* 'intestines' O.Ir. *eter etir* 'between': cp. Skr. *an-trā-m* etc., see above p. 189. *ōchter nachtar* n. 'that which is above, the upper part', beside *ōs uas* 'above'. *echtraum* 'a stranger' from *ech-tar* 'extra' (*-tar* for **-tra*): Lat. *extero-extrā*. *air-ther* 'former, the east', from *ar air* 'ante'.

cech-tar 'each of two' from *cech* adj. 'each'. *nech-tar* 'one of two' from *nech* 'one'.

-ther is also found side by side with *-iu* (§ 135) in adjectival comparative forms, yet it is comparatively much rarer than in Aryan and Greek: *luathi-ther* from *luath* 'quick', *libri-ther* from *lebor* 'long' and so forth. It occurs also in comparatives formed from substantives: Mid.Ir. *mētither* 'larger' from *mēt* f. 'size'.

-is-tero-. *sinser* 'older, oldest', ground-form **sen-is-tero-*, cp. *sin-iu* 'older' Lat. *sen-ior*. *ōser* 'younger, youngest' ground-form **iā'u-is-tero-*, cp. *ōa* 'younger' Skr. *yāv-īyas- yāv-iṣ-ṭha-*.

Germanic. Goth. *uf-arō* 'over' A.S. *uf-er-ra* 'upper': Skr. *ūp-ara-* etc., see p. 189 above. Goth. *und-arō* 'underneath' O.H.G. *unt-aro untero* 'lower' (adj.): Skr. *ād-ara-* etc., see p. 189 above. A.S. *af-era eafora* O.Sax. *abaro* 'offspring': Skr. *āp-ara-* etc., see p. 190 above. O.H.G. *ūz-ro ūzaro ūzero* A.S. *ūt-ra āter-ra* 'outer': Skr. *ūd-ara- ud-arā-* etc., see p. 191 above. O.H.G. *sīd-ero* A.S. *sīdra* 'later' (adj.), beside O.H.G. *sīd* 'late, later'.

Goth. *uns-ar* 'our' fem. *unsara*, *izv-ar* 'your' fem. *izvara*, O.H.G. *unsēr iunwēr*; *unsro* (nom. pl. fem.) *unsrēm* (dat. pl.) and the like, show the West-Germanic syncope: cp. Armen. *mer jer*, O.Ir. *ar n-*, *far n-*.

Goth. *vi-þra* O.H.G. *wi-dar* 'against, with-' (in composition):

1) **ar n-* and *far n-* no doubt stand for **(s)arom* **(s)warom*, since *s* disappears before a vowel which precedes the accent (cp. *it* = **senti*). We find in Mid.Ir. *sar*, accented, in Ps. 2, but *nar* in Ps. 1. I suppose **sarom* **swarom* to have arisen in proclitic positions, from forms like the Goth. *unsar izvar*, by loss of the initial sonant (*uns-* for *us-*), just as Romance *lo* came from *illum*, *loro* from *illorum*." Thurneysen.

Skr. *vi-tará-m.* O.H.G. *ni-daro* A.S. *ni-ðer-ra* 'lower' (adj.):
 Skr. *ni-tará-m.* O.H.G. *for-dro* *fordaro* *fordero* A.S. *furdra*
 'former' ground-form **pr-tero-*, beside Goth. *faúr faúra* 'before'.
 O.H.G. *hin-taro* 'hinder' beside Goth. *hin-dar* 'behind', cp. A.S.
 superl. *hin-dema*. Goth. *af-tarō* 'from behind' *aftra* 'back' O.H.G.
afstro *afstaro* *aftero* 'hinder part' beside Goth. *afar*. Several ad-
 verbial terminations derived from *-tero-* show considerable fertility,
 e. g. Goth. *hi-drē* 'hither' (Lat. *ci-trō ci-trā*) *jáin-drē* 'thither',
jáin-þrō 'thence', *alja-þrō* 'from some other place' *dala-þrō* 'from
 beneath'. With regard to several adverbs in *-ar*, like Goth.
af-ar *hin-dar*, we cannot tell whether they are acc. sing. neut.
 (cp. Skr. *prataram* Gr. *πρῶτος* Lat. *iterum*) or are parallel to
 forms like Gr. *ὕπερ* Skr. *upári*.

Goth. *hva-þar* O.H.G. *hwedar* *icedar* (*wederemo* *wederan*)
 'which of two?': Skr. *ka-tará-s* etc., see p. 190 above. Goth.
an-þar O.H.G. *andar* (*andremo* *andran* with West Germanic
 syncope) 'other': Lith. *añ-tra-s* 'other'.

Combination of comparative suffixes. O.H.G. *win-is-tar*
 'left', see p. 190 above. *-(t)ero- + -ies- -is-*: O.H.G. *unt-arōro*
 beside *unt-aro*, *for-drōro* beside *for-dro* and the like, A.S. *ūt-*
-er-ra beside *ūt-ra*, *æfter-ra* beside *æft-ra*, etc. O.H.G. superl.
unt-arōsto from *unt-aro*, *for-darōsto* from *for-dro* *fordaro*, *af-tristo*
 from *af-tro* and the like.

Remark. O.Icel. *aus-tr* 'east' O.H.G. *ōs-tra* *ōs-tara* f. 'Easter' *ōstar*
 'eastwards' (*ōstar*: *ōstani* = *hintar*: *hintana*), A.S. *eāstra* *eāsterra* 'more
 easterly', also Goth. *Ostro-gotha*: cp. Lat. *aus-ter* *austr-āli-s*, and further
 Avest. *nāns-taru-* 'easterly'. Should we consider the Germanic and the
 Latin word as the extension of a noun-stem **aus-to-* by *-ero-*, or as
 derivatives in *-tero-* from an adverb **aus-*, or as the regular phonetic re-
 presentatives of a form **aus-(e)s-t(er)a-*? In Germanic the names for the
 other quarters of the heavens are exactly parallel to the word for east,
 so far as their inflexional part is concerned, cp. e. g. O.Icel. *vestr norðr*
sudr, A.S. compar. *westerra norðerra süderra*. *norðr* appears to be con-
 nected with Gr. *νέτρος* Umbr. *nestro-*. In proper names we find also
Ausi- *Auri-* beside *Austro-* *Austar-*, and *Wese-* *Wisi-* (*Wesc-gothae* *Wisi-*
gothae) beside *Westar-*.

Balto-Slavonic. *-ero-* cannot be identified with certainty.
 Perhaps in O.C.Sl. *sěv-erŭ* Lith. *sziau-r-ỹ-s* 'north wind'?

O.C.Sl. *jě-tro* 'liver' from Idg. **en* 'in', and beside it *a-tro-ba*

f. 'intestines, belly' *q-tr-ī* adv. 'inside' beside O.C.Sl. *vū* for **on*, cp. p. 189. O.C.Sl. *ju-tro u-tro* 'morning' loc. *jutrě utrě* 'tomorrow', from *ju u* Lith. *jaũ* 'iam' (whence also O.C.Sl. *junũ* Lith. *jauna-s* 'young', see § 66 p. 149).

Lith. *ka-trà-s* 'which of two, which, who?' O.C.Sl. *ko-tery-jĩ ko-tory-jĩ* 'who?': Skr. *ka-tará-* etc., see p. 190 above. Lith. *aũ-tra-s* 'other, second' fem. *antrà*: Goth. *an-þar*; in O.C.Sl. *vũ-torũ*, which corresponds in meaning, the form of the root is unexplained. O.C.Sl. *je-terũ* 'any one', from the pronominal stem *je-*: Skr. *ya-tará-*, relat. 'which of two'.

§ 76. The Suffix *-lo-* *-lā-*, *-llo-* *-lla-*.¹⁾

For the variation between *-llo-* and *-lo-* see I § 287 p. 229.

In the proethnic and later periods it is both primary and secondary, forming adjectives and substantives. In its primary use *-lo-* serves especially to form nouns of the agent and instrument; as a secondary suffix it is used especially to form diminutives: in the latter use *-lo-* was exceedingly fertile in Latin, Germanic and Lithuanian.

Indo-Germanic. Skr. *tu-rá-* 'mighty, strong' *tū-lā-m* 'panicle, tuft, reed, cotton' *tū-lā* 'cotton plant', Gr. *τύ-λο-ς* *τύ-λη* (also *τέ-λη*) 'swelling, lump', Lith. *tū-lā-s* 'so many', i. e. 'a good number of' O.C.Sl. *ty-lũ* 'neck', *✓tey-* 'tumerē'. Skr. *ci-rá-* 'long', *ci-rā-m* 'delay, delaying', Goth. *hvei-la* 'while, time'. Armen. *dai-l da-l* 'beestings', Gr. *θη-λή* 'mother's breast', Lat. *fēlare*, O.Ir. *de-l* 'teat', O.H.G. *ti-la* 'woman's breast', Lett. *dē-l-s* (stem *dē-la-*) 'son' Lith. *pirm-dē-l-ė* 'one that has borne a child for the first time', *✓dhē(i)-* 'suck'; cp. also Gr. *θη-λν-ς* 'suckling, female' Skr. *dhā-rū-ś* 'sucking' with *-lu-* (§ 107). Gr. Lac. *ἐλλά* 'seat' for **īδ-λā* (I § 364 p. 277), Lat. *sella* for **sed-lā* (I § 369

1) Besides the authorities given in the footnote on p. 180 cp. Osthoff, Die Suffixform *-sla-*, vornemlich im German., Paul-Brauno's Beitr. III 335 ff.; Vogel, Lateinische Diminutiva auf *-ulus*, Mitau 1876; Lissner, Über den Suffixcomplex *-ti-li-* im Lat., Eger 1874; von Paucker, Die [lat.] Diminutiva mit dem Suffix *-culus*, *a*, *um*, Ztschr. f. österr. Gymn. 1876 p. 595 ff., and the same writer, Die [lat.] Diminutiva mit doppeltem *l* (*-ellus*, *-illus*, *-ullus* etc.), Kuhn's Ztschr. XXIII 169 ff.

p. 280), Goth. *sit-l-s* 'seat', O.C.Sl. *selo* 'fundus' (Lower Sorb. *sedlo* 'seat' Upper Sorb. *sydlo* 'abode' Czech *sed-l-ák* 'peasant') for **sed-lo-* (I § 548 p. 402). Idg. **ghes-lo-* **ghes-l-iŋo-*: Skr. *sa-hāsra-m* 'thousand' *sa-hasrīya-s* 'thousandfold', Gr. *δεκά-χίλοι* 'ten thousand' Lesb. *χέλλιοι* Dor. *χήλιοι* Att. *χίλιοι* 'thousand' from **χ+o-lo-* (I § 565 p. 423); for the *τ* of *δεκά-χίλοι* and *χίλιοι* I can now refer to Thurneysen, Kuhn's Ztschr. XXX 353.

Gr. Hom. *ομίχ-λη* Lith. *mig-lā* *myg-lā* (also *myg-lā* with the suffix *-iā-*) O.C.Sl. *mīg-la* 'mist'. Skr. *aj-irā-* 'mobile, quick', compare Lat. *ag-ili-s* (transferred from the *o-* to the *i-* declension), which may represent either **aġ-llo-* or **aġ-lo-*.

In Italic, Germanic and Balto-Slavonic we frequently find *-s-lo-*, which was taken from forms where *-s-* was the so-called root-determinative, like Lat. *āla* for **axla* (cp. *axilla*) O.Sax. *ahsla* O.H.G. *ahsala* 'shoulder' beside Skr. *ākṣa-s* O.H.G. *ahsa* Lat. *axi-s* Lith. *aseli-s* 'axle' for **aġ + s-* from **aġ-* 'drive, set in motion'; O.H.G. *dehsala* O.C.Sl. *tesla* 'axe' beside Avest. *taša* 'axe' Gr. *τόξο-ν* 'bow' O.H.G. *dehsa* 'hatchet, trowel' from **tek- + s-*.

In the same way were formed e. g. Lat. *vēlu-m* 'sail' (cp. *vehillu-m*) O.C.Sl. *veslo* 'oar' from **ueġh + slo-* ('means of moving'), √ *ueġh-* 'vehere'.

-lo- as a secondary suffix. Skr. *nābhīla-m* 'puḍenda, navel', Gr. *ομφαλό-ς* 'navel, boss of a shield', Lat. *umbil-īcu-s*, O.Ir. *imbl-iu* 'navel', O.H.G. *nabolo* O.Icel. *nafla* m. 'navel', beside Skr. *nābhi-ś* 'nave, navel', Lat. *umbō* 'boss of a shield', O.H.G. *naba* 'nave', Pruss. *nabi-s* 'nave, navel' Lett. *nabba* 'navel'. Skr. *tūm-ra-* 'swelling, fat, strong', Lat. *tumulu-s*, O.Icel. *þumall* m. 'thumb', beside Skr. *tū-tu-mā-* Avest. *tū-ma-* 'strong, powerful' etc., see § 72 p. 171. Skr. *bahu-lā-* 'thick' Gr. *παχυ-λό-ς* 'rather thick', beside Skr. *bahú-ś* Gr. *παχύ-ς* 'thick'. Skr. *anaku-rā-s* 'a swelling, tumour', Gr. *όγκυ-λο-ς* 'swollen, proud' (whence *όγκυλλομαι*) *όγκυ-λο-ς* 'crooked' (older accentuation **όγκυλό-ς* **άγκυλό-ς*, see I § 676, 4 p. 542 f.); we should perhaps also compare O.H.G. *angul* O.Icel. *ongull* m. 'fishhook, angle', pr. Germ. **anogulā-*, cp. Skr. *anaku-śā-s* 'hook'. The diminutival sense is clearly marked e. g. in Lat. *porculu-s* *porcil-ia* O.H.G. *farhet-i* n. Lith.

paršēl-i-s 'little pig, sucking pig' compared with *porcu-s farah* *parša-s* 'pig', Lat. *rotula* Lith. *ratēl-i-s* 'little wheel' beside *rota rāta-s* 'wheel' (the diminutival sense of the *l*-derivative in Lithuanian is certainly older than the addition of the further suffix *-iō-*, although the latter is also a diminutive suffix, see § 63, 2). Here belong also pet-names like Skr. *bhānu-la-* Gr. *Θρασύ-λο-ς* O.Ir. *Tuath-al* Goth. *Vulfi-la* Pruss. *Butil*, for which see below.

The termination *-e-lo-* is exceedingly common and certainly dates from the protoethnic period of Indo-Germanic, but in many cases we cannot tell whether the stem to which it is added is verbal or nominal.

Aryan. Skr. *sthū-rā-* *sthū-lā-* 'massive, strong, rough, stupid': Gr. *στῦ-λο-ς* 'pillar'. Skr. *has-rā-* 'laughing', with which Windisch would compare Gr. *χεῖλο-ς* n. 'lip' for **χῑσ-λο-ς*. Avest. *tiγ-ra-* 'point': Goth. *stik-l-s*, see below. Avest. *stax-ra-* 'strong, firm': O.H.G. *stah-al*, see below. Skr. *sa-hāsra-m* Avest. *ha-zanre-m* 'thousand': Gr. Lesb. *χέλλ-ιοι*, see p. 199 above. Skr. *gō-la-s* 'ball', *gō-la-m gō-lā* 'spherical water-vessel': Gr. *γαν-λό-ς* 'pail, vessel' *γαῦ-λο-ς* 'trading ship' (O.H.G. *chiol* and O.Icel. *kjöll* 'ship' can hardly be compared with this group of words; their vocalism seems to shew that they come from a different root). Avest. *zaf-ra-* n. (beside *zafar*) 'mouth, throat': O.Sax. *kaf-l* A.S. *ceaf-l* m. 'jaw' (of animals).

-flo-. Skr. *ajirā-s*; see above. *suš-irā-s* *śuś-irā-s* (see I § 557, 4 p. 413) 'hollow, a reed', n. 'hole, wind instrument': Gr. *αῖλ-ός* 'reed, pipe, flute' for **σανσ-λο-ς*. Skr. *āṅgira-*, name of divine beings who were regarded as mediators between men and gods: Gr. *ἄγγελος* 'messenger': the *g* of the Skr. form implies that the original form was not **āṅgo-lo-* (cp. Skr. *āni-la-s* 'wind' Gr. *ἄνε-μος* for **anə-*, beside Skr. *āni-mi*), but **āng-flo-*, see I § 445 p. 331, § 450 p. 333 f. We should no doubt add *tum-ura-* *tum-ula-* 'loud, noisy' beside *tum-ala-*, with the same meaning (cp. *trpā-la* beside *trp-rā-* 'restless, anxious': Lat. *tumul-tu-s*: the word is usually connected, and perhaps rightly, with Skr. *túm-ra-* 'swelling puffed up' (see p. 198 above.)

-lo- in secondary use. Skr. *nabhīla-m*, *tám-ra-* (ultimately also *tum-ura-*), *bahu-lá-*, *aṅku-rá-s*; see above. Further, with diminutive sense, *vṛṣa-lá-s* 'mannikin, small man' (*vṛṣan-* 'man'), *śiśu-la-s* 'little child' (*śiśu-ṣ* 'child'), *śalaka-lá* 'small splinter' (*śaláka* 'splinter'). Add pet names like *bhanu-la-* cp. *bhanu-datta-*, *pitṛ-la-* cp. *pitṛ-datta-*, *dēvīla-* cp. *dēva-datta-*.

Remark 1. We may add here a number of forms from Aryan, in which it is doubtful whether the suffix is Idg. *-ro-* or *-lo-*, cp. § 74 p. 182.

Skr. *dū-rá-* Avest. O.Pers. *dū-ra-* 'distant'. Skr. *krū-rá-* 'bloody, wounded, cruel, gruesome', Avest. *xrū-ra-* 'wounding, horrible'. Skr. *śrī-lá-* 'beautiful' *a-śrī-rá-* *a-śrī-la-* 'not beautiful, ugly' Avest. *sri-ra-* 'beautiful', cp. compar. Skr. *śrē-ya-s*. Skr. *uy-rá-* Avest. *uy-ra-* 'strong, mighty'. Skr. *āg-ra-m* Avest. *ay-re-m* 'beginning'. Skr. *kṣip-rá-* 'quick', *miś-rá-* 'mixed' *ā-miś-la-* 'intermingling', *ruk-rá-s* 'crooked', *pā-lá-s* 'protector, herdsman', *rāndh-ra-m* 'opening'. Avest. *hix-re-m* 'fluid, impurity'.

-ro- -llo-. Skr. *dheas-irá-* (beside *dheas-rá-*) 'scattering', *mad-irá-* 'gladdening', *sar-irá-* *sal-ilá-* 'flowing, undulating', n. 'wave, flood', *tṛd-ilá-* 'perforated, porous'. In Iranian the regular phonetic development reduced *-ro- -llo-* and *-e-ro- -e-lo-* to one form *-ara-*, and they are thus indistinguishable.

-ro- -lo- in secondary use; Skr. *ānu-ra-* Avest. *ānu-ra-* O.Pers. *an-ra-* (in *aura-mazdāh-*) meaning perhaps 'lord', epithet of divinities, compared with Skr. *ānu-* 'vital spirit'; for the etymology of the word see von Bradke, Ztschr. der deutsch. morg. Ges. XL. 347 ff. Skr. *pāsu-rá-* 'dusty' (*pāsu-ṣ* 'dust'), *madhu-ra-* *madhu-lá-* 'sweet' (*mādhu* 'sweetness, honey'), *muśka-rá-* 'having testicles' (*muśká-s* 'testicle'), *phēna-lá-* 'foamy' (*phēna-s* 'foam'). In the following words the primary stem has no final *-a-*: *dhūm-rá-* 'gray' (*dhūmá-s* 'smoke'), *rath-irá-* 'travelling in a chariot' (*rātha-s* 'chariot'), *phēn-ila-* beside *phēna-lá-* 'foamy'.

The addition of *-ra- -la-* to stems in *-ran-* is particularly common. The combination *-vara- -vala-* (cp. p. 182 for Skr. *pivara-* Gr. *πιερό-* = Idg. **pi-ye-ró-*) was taken into common use as an independent suffix. Skr. *adhvará-s* 'festal gathering' (*adhvan-* 'way') *it-vará-* 'going' (*itvan-* 'going'), and further *vid-vulá-* 'clever' (*vid-* 'know'), *kṛṣi-valá-* 'husbandman' (*kṛṣi-ṣ* 'husbandry') and other words. *-vari* is a common fem. termination from adjectives in *-van-*; e. g. *yāj-vari* from *yāj-van-* 'pious', *ṛtāvari* Avest. *ašāvairi* from *ṛtāvan-* *ašāvan-* 'pious'. In Avestic, certain nom.-acc. neut. end in *-var^o*, e. g. *miš-war^o* from *miš-van-* n. 'pair', *karš-var^o* from *karš-van-* n., the name for the seven divisions of the earth: cp. Gr. *πῖ-(F)ας* 'fat' beside *πιερό-*; *πιερό-*.

Compare with this *-vara- -vala-* Skr. *admará-* 'ravenous' from *ād-man-* n. 'food', *sidhmālā-* 'leprous' from *sīd-man-* *sīd-mā-* 'leprosy'; further, O.H.G. O.Sax. *himil* beside Goth. *himin-s* 'heaven', A.S. *ðymel* 'thumb-stall, finger-guard' beside *ðūma* m. (acc. *ðūman*) 'thumb'.

Armenian *dai-l da-l* 'beestings': Gr. *θη-λή* etc., see above p. 198.

Here too no doubt belong infinitives in -l, as *ta-l* 'to give' (indic. *ta-m*), *bere-l* 'to carry' (*bere-m*), *meṛani-l* 'to die' (*meṛani-m*).

Greek. *στῦ-λος* 'pillar': Skr. *sthā-rā- sthā-lā-*, see above p. 200. *πῖ-λος* 'felt': Lat. *pi-lu-s* 'hair' and the derivative *pīleu-s* 'felt' (also written *pilleus*, see I § 612 p. 463 ¹). *καυ-λό-ς* 'stalk': Lat. *cau-lae* pl. 'cavities' (cp. also Lat. *cau-li-s* 'stalk'), Lith. *káu-la-s* 'bone'. *ζεύγ-λη* 'yoke-ring, thong': cp. Lat. *jug-ulae* pl. 'Orion's girdle of stars'. *τυφ-λό-ς* 'blind'. *στρεβ-λό-ς* 'twisted'. *ἐκ-παγί-ος* 'awful, terrible' for **ἐκ-πλαγ-λος*, from *ἐκ-πλαγ-ῆναι*, see I § 266 p. 215. *φῦ-λο-ν* 'stem, race' *φῦ-λή* 'community' *ἀιθ-λο-ς* *ἄθ-λο-ς* 'contest' *ἄεθ-λο-ν* *ἄθ-λο-ν* 'prize'. *στρέβ-λη* 'roll, roller'.

By the side of the adjectives in pr. Gr. -η-ος (§ 74 p. 184) there were others in -η-λος, like Hom. *κατα-ρῖγῆλός* 'making one shudder, terrible' (*κατα-ρρῖγέω*), *μιμηγλός* 'imitative, imitated' (*μιμέομαι*), including such substantival *nomina agentis* as *ἀπῆγλος* 'huckster', Lac. *δείκῆλος* (and the extended form *δεικηλικτά-ς*) 'actor'. Cp. Lat. *cicindēla* (below, Remark 2) and Lith. *tekė-la-s* beside *tekė-ti* (see below).

πῖ-λος 'fat', like *πῖ-αρός*, from *πῖ-αίνω* (see § 74 Rem. p. 185), extended *πῖ-αλέ-ος* 'fat' (see § 64 p. 135); like the latter are formed *ἱκμαλέ-ος* 'damp', from *ἱκμαίνω*, *κρυμαλέ-ος* 'frosty', from *κρυμαίνω*, *δειμαλέ-ος* 'timid, terrible' from *δειμαίνω*, and many other similar words.

-λλο-. *κεφ-αλή* beside *κέβ-λη* 'head': Goth. *gib-la* m. 'spire' O.H.G. *gebal* m. 'skull, head', √ *ghebh-*. *πέτ-αλο-ς* 'outspread' *πέτ-αλο-ν* 'leaf'. *αῖθ-αλο-ς* 'soot'. *κρέμβ-αλο-ν* 'rattle'.

-λο- -λλο- in secondary use. *παχυ-λό-ς*, *ὀγκύ-λο-ς*, see p. 199. *ἡδύ-λο-ς* 'sweetish' (*ἡδύ-ς* 'sweet'), *δρῆμύ-λο-ς* 'somewhat sharp' (*δρῆμύ-ς* 'sharp'), both with shifted accent like *ὀγκύ-λος* (see I § 676, 4, p. 542 f.). *δανλό-ς* 'thickly overgrown' for **δασν-λος*, from *δασύ-ς* 'thickly grown', *τρανλό-ς* 'tisping, snarling, stuttering'.

1) In the first sentence of this section of the English edition (p. 462) instead of 'nasal liquid explosive or sonant', read 'nasal liquid explosive or spirant' (Geräuschlaut).

for **τρασσ-λο-* beside Skr. *trśā-* 'brisk, impetuous' (Wheeler, Der griech. Nominalaccent 63). *όμ-αλό-* 'smooth, even', from *όμός*: Lat. *simili-*s, for older **sem-lo-* or **sem-llo-*. *χαμ-αλό-* 'low', beside *χθον-* 'earth' for **χθου-* (I § 204 p. 172, II § 160, 2): Lat. *hum-ili-*s. Words like *παχν-λό-*, where *-λο-* acts as a diminutive suffix, gave rise to a number of new formations, most of which however appear only in later Greek; as *μικ-έλο-* 'small', from *μικρός*, *ἀρκε-ύλο-* 'young bear', from *ἄρκτος*; and to extended formations with *-ιο-* like *καθαρ-ύλλο-* 'cleanly' (*καθαρός* 'clean'), to which again a further diminutive suffix was added, e. g. *ἀνθ-ύλλ-ιο-ν* 'floweret' (*ἄνθος*), *ἐπ-ύλλ-ιο-ν* 'small poem' (*ἐπος*). Pet names with *-λο-* are common. *Ὀνησί-λο-* ep. *Ὀνησι-κράτης*, *Ταξι-λο-* ep. *Ταξι-κλῆς*; hence *-ιλο-* became an independent ending, e. g. *Σω-ίλο-* ep. *Σω-κράτης*. Further, we have names of this kind extended by *-ιο-* as *Τριψι-λλο-*, ep. *Τριψι-κλῆς*; then *-ιλλο-* also became an independent ending, as *Δορ-ιλλο-* ep. *Δορυ-λάς*. *Θρασύ-λο-* ep. *Θρασύ-μαχος*, *Βαθύ-λο-* ep. *Βαθύ-λαος*, hence such forms as *Ἀγ-ύλο-* *Ἡγ-ύλο-* ep. *Ἀγέ-στρατο-* *Ἡγέ-στρατο-*; with the *-ιο-* extension we have e. g. *Βάθυ-λλο-* beside *Βαθύ-λο-*, hence forms like *Νίκ-υλλο-* ep. *Νικο-μήδης*.

We may regard either as primary or as denominative formations adjectives in *-α-λο-*, such as *σιγῆλό-* (Pind. *σιγᾶλό-*) 'silent, quiet' beside *σιγάω* 'I am silent' and *σιγή* 'silence', *ἀπατηλό-* 'deceitful' beside *ἀπατάω* 'I deceive' and *ἀπάτη* 'deceit', ep. *-α-ρο-* § 74 p. 184 f. The same is generally true of forms in *-ε-λο-* = Idg. *-e-lo-*, e. g. *τροπ-ε-λό-* 'turning' in *εὐ-τρόπελο-* 'turning easily': Lat. *torculu-*s for **torcu-lo-* (I § 431 c p. 320 f); *στεν-ε-λό-* beside *στεν-λό-* 'solid, compact, firm, hard'; *εἰκ-ε-λο-* 'like, similar'; *μῦ-ε-λό-* 'marrow'; *σκόπ-ε-λο-* 'rock'; *νεφ-έ-λη* 'cloud': Lat. *nebula*, O.Ir. *nēl* 'cloud' for **neb-lo-*, O.H.G. *neb-ul* m. 'cloud'; *ἀγ-έ-λη* 'herd': ep. O.Lat. *agolo-* n. 'pastorale baculum, quo pecudes aguntur' (Paul. Fest.). The *-λο-* of *-ε-λο-* can be more certainly identified as a secondary suffix in *πι-με-λη* 'fat' and *θν-μέ-λη* 'place of offering', to be compared with *ή-μέ-ρα* and similar words, but in no other examples.

Italic. Ital. **fē-lo-* in Lat. *fēl-are* *fīl-iu-s*, Umbr. *feliuf* *filiu* acc. 'lactantes' *fēl*. (abbreviation) 'filius': Gr. *ῥη-ιη* 'mother's breast', Lett. *dē-l-s* 'son' etc., see above p. 198. Lat. *sella* for **sed-lā*: Gr. *ἰλλᾶ* etc., see above, p. 198 f. *grallae* 'stilts', compared with *gradior*. *rallu-m* (*a*?) 'ploughshare' beside *rādula* 'scraper' (is this for orig. **rad-fla*, or a new formation of later date?) from *radō*; also *rallu-s* (*a*?) 'close shorn'. *caelu-m* 'chisel' from *caedō*. *pīlu-m* 'pestle' for **pius-lo-m* (I § 208 p. 175 f.). *exem-p-lu-m* (from *eximō*, 'something taken out', hence) 'specimen, type', *tem-p-lu-m* (cp. Gr. *τέμνω*, 'something cut off', hence) 'holy precinct, temple', with -*p-* as a glide sound (I § 208 p. 175). *assecla*, from *assequor*.

-*ulo-* *ula-* are very frequent in Latin. In the forms *assecula* beside *assecla*, *vinculu-m* beside *vinclu-m*, *torculu-s* (*torqueō*), *coculu-m* (*coquō*), as in *tragula* (*trahō*), -*ulo-* *-ula-* were developed from -*lo-* *-lā-* during the Latin period, see I § 269 p. 218, § 431 c p. 320 f., § 509 p. 373. Elsewhere it is doubtful, whether Idg. -*lo-* or -*llo-* or -*e-lo-* was the original suffix; e. g. in the *nomina instrumenti*, like *capulu-s* *capulu-m* *ex-cipulu-m* (cp. O.H.G. *hev-ilo* 'yeast', the means of making something rise), *cingulu-m* *cingula*, *tēgulu-m* *tēgula*, *cōpula*, *rēgula*. Further, in substantival *nomina agentis*, as *figulu-s* 'potter' *legulu-s* 'gatherer', and adjectival *nomina agentis*, which usually imply a culpable tendency to some action, as *bibulu-s*, *crēdulu-s*, *gemulu-s*, *tremulu-s*, *pendulu-s*: cp. Goth. *sakul-s* 'quarrelsome' and the like; see below. In a few cases also it is conceivable that the suffix may represent Idg. -*u-lo-*. Where there has been a transference from the *o-* to the *i-* declension, -*ili-* appears, instead of -*ulo-*. Thus we have *agili-s*: Skr. *ajirā-s*, see above, p. 199. Similarly *bibili-s*, *fragili-s*, *facili-s*, *docili-s*, *habili-s* etc., and by an extension to the *to-* participle *coctili-s* *fissili-s*, *flexili-s*, *versatili-s*, *volatili-s* etc.

-*s-lo-* is of common occurrence. *ala*, *vēlu-m*, see p. 199 above. *alu-m* 'wild garlic' for **an-s-lo-m*, cp. O.C.Sl. *ač-ati* 'to give forth smell' for **on-s-ati*, beside Skr. *āni-ti*. *prēlu-m* for **prem-s-lo-m*, from *premo*. *pālu-s* *pālu-m* for **pac-slo-* or **pac-slo-*,

from *pac-īsiōr*, √ *pak-* 'fasten': cp. Gr. *πάσσαλο-ς* 'peg, nail' as though from a present **πάσσω*, for **παζω* (cp. *πήσσω*), and hence to be compared in point of formation with O.H.G. *deckel* from *decken* = O.Icel. *þekja*. *scāla* for **scantsla*, from *scandō*. For the phonetic changes in these words see I § 208 p. 175 f., § 570 p. 428.

Remark 2. Osthoff (Paul-Braune's Beitr. III 346) would also derive from *-s-lo-* *-s-lā-* the feminine substantives like *fugēla sequēla quērela*, and *candēla nitēla*, referring, *-ēla* in the former group to **-ē-slā* (cp. *fugē-re*), in the latter to **-ē-slā* (cp. *candē-re*), and he compares such Germ. forms as O.H.G. *ruomi-sala* f. *hruomi-sal* n. 'boasting' (see below). This is possible. Still there is nothing to prevent our deriving them from Idg. *-ē-lā-*, and I rather prefer this explanation on account of *cicindēla* 'glow-worm'. This was the feminine of an adjective **cicindēlo-*, which may be compared with Gr. *μύμη-λό-ς*. Accordingly we should regard *candēla* and the other parallel forms as having been originally adjectival.

-lo- *-llo-* is secondary in *simili-s*, *humili-s* (with change of declension, see p. 203 above); similarly *parili-s* from *pār*, *pestili-s* from *pesti-s*, *herbili-s* from *herba*. *nūbili-s* from *nūbēs*. *angulus*, Umbr. *anglom-e* 'in angulum' for **anc-lo-*, compared with Lat. *ancu-s*; similarly O.Lat. *ungulu-s* compared with *uncu-s*; see I § 499 p. 366. Whether *-lo-* is also secondary in Lat. *famul* *famulus* Osc. *famel* 'servus' *famelo* f. 'familia' (compare Lat. *famil-ia* Umb. *fameṛ-ias* pl. 'familiae') may be left an open question; see Daniellsson in Pauli's Altital. Stud. III 178.

This suffix was very fertile in forming diminutives. Lat. *catulu-s* Umb. *katel* 'catulus' *katlu* 'catulum'. Lat. *porculu-s* *porcil-ia* beside *porcus*: O.H.G. *farhel-i* n. Lith. *parszēl-i-s* 'sucking pig'. *rotula* beside *rota*: Lith. *ratēl-i-s*. Other substantives are: *rēgulu-s*, *adulēscentulu-s*, *vīculu-s*, *scūtulu-m*, *glandula*, *nūtrīcula*, *animula*, *mēnsula*; *servolu-s*, *clavola*; *filiolu-s*, *glōriola*, *līneo-la*. Adjectives: *loquāculu-s*, *valentulu-s*, *frīgidulu-s*, *barbatulu-s*; *helvolu-s*; *ēbriolu-s*, *aureolu-s*. Umbr. *fondlo-* 'fonticulus' (*fondlir-e* 'in fonticulis') for **font-lo-*, cp. *adro-* I § 499 p. 366. Osc. *Núvlā-* 'Nola' in *Núvlanús* pl. 'Nolani' corresponds to a Lat. form **novola* (beside *novo-s*). We should notice also as examples of different phonetic changes; Lat. *stella* for **ster-lā* (Gr. *ἀστὴρ* 'star'), *puella* for **puer-lā*, *agellus* for **ager-lo-s*,

nigellu-s for **niger-lo-s*, *satullu-s* for **satur-lo-s*, *pauullu-s* *paulu-s* for **paur-lo-s* (Gr. *πᾶρος* 'small, little'), see I § 269 p. 216, § 633 p. 473 f.; further *asellu-s* for **asen-lo-s*, *fēmella* for **fēmen-lā*, *bellu-s* for **ben-lo-s* (*bene*), *gemellu-s* for **gemen-lo-s*, *suillu-s* for **suin-lo-s*, *corōllu* for **corōn-lā*, see I § 208 p. 175; lastly *lapillu-s* for **lapid-lo-s*, see I § 369 p. 280.

In Latin *-lo-* was often added to these diminutives as a further diminutive suffix, e. g. *catellu-s* from *catulu-s*, *cistella* from *cistula*, (*catello-*: orig. **cat-lo-* = **ager-lo* *agello-*: *agro-*), *agellulu-s* from *agellu-s*, *puellu-lā*, *paullu-lu-s*, *tenellulu-s*, *bellulu-s*.

Another suffix in which the diminutive sense was doubly expressed, but which in the historical period of Latin was regarded merely as a single diminutive suffix, arose in protoethnic Italic through the addition of *-lo-* to the suffix *-ko-* (§ 88)¹): Lat. *diē-cula*, Osc. *zi-colois* 'diebus' *zi-culud* 'die' (see I § 73 p. 63 f., § 135 p. 123). Other examples from Latin are: *mūs-culu-s* 'little mouse, muscule' (cp. Skr. *muṣ-ká-* 'testicle' *mūṣ-aka-s* *mūṣ-ika* 'rat, mouse', Armen. *muḵn* 'mouse, muscle'), *jās-culu-m*, *corculu-m* i. e. **cord+culu-m*, *māter-cula*, *latrānculu-s*, *corpus-culu-m*, *melius-culu-s*, *igni-culu-s*, *resti-cula*, *levi-culu-s*.

Old Irish. O.Ir. *de-l* 'teat': O.H.G. *ti-lā* etc., see above p. 198. *cē-l* O.Cymr. *coi-l* 'augurium': Goth. *hái-l-s* 'sound, healthy', O.H.G. *hei-l* 'sound, whole', A.S. *hæl* O.Icel. *heill* n. (for **hailiz-*) 'luck, favourable omen', Pruss. *kail-ūstika-n* acc. 'health' O.C.Sl. *cě-lŭ* 'whole, complete'. *něl* 'cloud' for **neb-lo-*, Cymr. *niel* 'cloud': Gr. *νεφέλη* etc., see p. 203 above. *coll* m. 'hazel' for **cos-lo-*: Lat. *cor-ulu-s* (*corylu-s*) for **cos-*, O.H.G. *hasal* O.Icel. *hasl* 'hazel'. *temel* 'darkness': Skr. *tam-rá-* 'darkening'. *sī-l* n. 'seed', √ *sē-*. *gabul* *gobul* Mod. Cymr. *gaſt* 'forked branch or twig, fork of the thighs'.

-s + lo-. *uall* f. 'exaltation, haughtiness' *uasal* 'high, exalted, noble' Mod.Cymr. *uchel* 'high' Gall. *Uxello-dūnu-m* 'High-town', compared with O.Ir. *ōs uas* Mod.Cymr. *uch* 'above' for **aug-s-* (cp. Lith. *áuksz-ta-s* 'high') from √ *aug-* 'increase'; *uall* there-

¹) G. Curtius (Stud. I 1, 259 ff.) treats this combination as older than the Italic period. I cannot regard this as completely demonstrated.

fore = **auq-s-la*, on the other hand *uasal* must be compared with Lat. *auxiliu-m*, which represents a form **auxulo-*, cp. *famil-ia*: *famulu-s*, *Caecil-ii-s*: *Caeculu-s*. *ciall* Mod.Cymr. *pwylt* 'wit understanding' orig. **qeī-sla-*, cp. Skr. *ci-ké-ti ci-nó-ti* 'observes, finds out'. Perhaps we should add *giall* 'hostage' pr. Kelt. **gēslo-*: O.H.G. *gīsal* O.Icel. *gisl* m. 'prisoner of war, prisoner held as a surety', common ground-form **gheislo-*; the etymology of the word has not been explained; the vocalism of the Keltic word is against its connexion with Lat. *haereō*, which Osthoff considered certain (Z. Gesch. d. Perf. 630).

-lo- occurs with diminutival force in pet names, such as *Tuathal* cp. *Tuath-char*; cp. also Gall. *Teutalu-s*, *Camulu-s*, *Toutillu-s*, *Catullu-s*.

Germanic. Goth. *fū-l-s* O.H.G. *fū-l* 'foul': Lith. *pū-lei* pl. 'pus, matter', stem *pū-l-ja-*. O.H.G. *siu-la* f. 'awl, punch': Lith. *siū-la-s* 'thread for stitching' *siū-l-ė* 'seam', perhaps also Gr. *ῥ-λ-ιαί* pl. 'pieces of leather for shoe soles' (Hesych.). O.H.G. O.Icel. *sei-l* n. 'rope' O.H.G. *si-lo* m. 'straps for draught cattle, harness': Lith. *āt-sei-l-i-s* 'the iron which joins the connecting rod to the axle, the crank', *āt-sai-l-ė* 'connecting pole between the splinter-bar and the axle'. Goth. *stō-l-s* O.H.G. *stuo-l* 'stool, seat': Lith. *pa-stō-la-s* 'stand', pl. 'carpenter's scaffolding', Goth. *stik-l-s* O.H.G. *stechal* m. 'drinking vessel, goblet' (properly used of drinking horns that run to a point, then of other drinking vessels): Avest. *tiy-ra-* 'point'. O.H.G. *hag-al* m. O.Icel. *hag-l* n. 'hail' is presumably to be compared with Gr. *χαλ-ηξ* 'small stone, pebble'. O.H.G. *stah-al* m. O.Icel. *stál* n. 'steel': Avest. *star-ra-* 'strong, firm', Pruss. *pam-stacla-n* acc. 'steel for kindling fire'.

Goth. *ag-l-s* 'terrible', beside *ōg* 'I am afraid'. Mid.H.G. *krol*, gen. *krolles* 'in ringlets, curled' pr. Germ. **kruz-lá-*, see I § 582 p. 436. O.H.G. *zī-la* 'line, row', beside *zī-t* pr. Germ. **tī-dī-* 'time'. Goth. *fug-l-s* O.H.G. *fog-al* m. 'bird', for **flug-la-*?, see I § 277 p. 221. Goth. *þvah-l* n. 'bath'. Goth. *faīr-veit-l* n. 'stage play'. O.H.G. *scūv-ala* A.S. *sceof-l* f. Dutch *schoff-l* 'shovel', beside O.H.G. *scioban* 'shove, push'.

The following examples probably contain *-llo-*: Goth. *hakul-s*

O.Icel. *hǫkull* m. 'mantle' beside O.Icel. *hek-la* 'mantle'. O.Icel. *sǫðull* O.H.G. *satul* m. 'saddle'. O.H.G. *snabul* m. 'snout'. Adjectival *nomina agentis* generally imply an inclination to something: Goth. *sakul-s* 'quarrelsome', *slahul-s* (beside *slahal-s*) 'apt to strike', O.Icel. *hugull* (beside *hugall*) 'careful, thoughtful', O.Sax. *slāpol* 'lethargic' *fluzol* 'fleeing' (in O.H.G. *-al*, as *ezzal* 'ravenous', *sprungal* 'saliens'); forms like A.S. *hlaz-ol* 'inclined to laughing' (beside *hliehhan* 'to laugh') indicate that the suffix was originally accented. Also in secondary use, as Goth. *vein-ul-s* 'bibulous' from *vein* n. 'wine' (O.H.G. *wort-al* 'talkative' from *wort* n. 'word').

-s-lo- is frequent; it is nowhere so fertile as in Germanic. O.H.G. *ahsala*, *dehsala*, see p. 199. Goth. *preihsl* n. 'distress', from *preiha* 'I press' for pr. Germ. **preiḡō* (I § 214 p. 181). Goth. *skōh-sl* n. 'evil spirit'. Goth. *hunsl* A.S. *hūsel* O.Icel. *hūsl* n. 'offering' for **xuunt-sla-*, compared with Avest. *spent-a-* O.C.Sl. *svetŭ* 'holy', cp. I § 180 p. 158 (where **xuunt-sla-m* should be read for **xuunt+tlā-m*) and § 413 p. 303. O.H.G. *wehsal* m. O.Icel. *víxl* n. 'change', compared with O.H.G. *wihhan*. O.H.G. *knuosal* A.S. *cnōsl* n. 'family', cp. Gr. *γνώ-ρό-ς* 'a relative'. O.Icel. *beisl* n. 'bit, curb' ground-form **bhojd + slo-*, beside Goth. *beita* 'I bite'. In particular many nouns were formed in *-isla-* in connexion with verbs in *-jan*, as Goth. *spartisl* n. 'blackness, ink' beside **spartjan* O.Icel. *sverta* 'to blacken', O.H.G. *irrisal* 'error' beside *irren*, *truobisal* 'affliction' beside *truoben* 'to trouble', *ruomisal* and *hruomisala* 'ostentation, boasting' beside *hruomen* 'to boast'. Later the suffix was added to noun stems, as in Mid.H.G. *twanc-sal* 'restriction' from *twanc* 'force', *fluht-sal* 'a fleeing, escape' from *fluht* 'flight'. From the Middle High German period onwards it was regarded as a distinct word in composition. Cp. *-s-tyo-* § 61, *-s-tro-* § 62, *-s-ti-* § 100, *-s-tu-* § 108, *-s-men-* § 117.

Pr. Germ. *-ila-* is very frequent, and difficult to explain with certainty. If Paul (in his Beitr. IV 235) is right in holding that pre-Germanic *-flo-* in the protoethnic Germanic period passed sometimes into *-ula-*, sometimes into *-ela-* later *-ila-*,

according to the varying intensity of the accent, then some of the forms in *-ila-* must be added to the examples given above of Idg. *-llo-* (with pr. Germ. *-ula-*), and we could derive Goth. *mikil-s* A.S. *mikil* O.H.G. *mihhil* O.Icel. *mikell* 'great', with Gr. *μεγάλο-*, from a ground-form **meg-llo-*. But this law does not seem to me clearly established. In any case some of the forms with pr. Germ. *-ila-* are to be referred to Idg. *-e-lo-*. A certain number may represent an Idg. *-i-lo-*. If we exclude more or less isolated formations, like the already mentioned *mikil-s*, Goth. *ubil-s* O.H.G. *ubil* 'evil, bad' (perhaps the meaning is 'going beyond bounds, transgressing rules', so that we should compare O.H.G. *ubir* 'over' Gr. *ὑπέρ*), and Goth. *in-ilō* f. 'excuse, motive' (beside *fair-ina* f. 'charge, ground of complaint'), pr. Germ. *-ila-* is found especially in substantival *nomina agentis* and in diminutives. Hence these two classes may be placed here:

Substantival *nomina agentis*. O.H.G. *brāt-pitil* 'wooer, suitor's advocate' O.Icel. *bidell* 'one who asks'. O.Sax. *crupel* O.Icel. *kryppell* 'cripple' ('creeper'), beside O.Icel. *krjūpa* 'to creep'. O.H.G. *tripil* 'charioteer' ('driver'), *putil* 'beadle' ('summoner'), *tregil* 'carrier', *drāhsil* 'turner'. Names of creatures like O.H.G. *wibil* O.Icel. *vifell* 'chafer, beetle' (Mid.H.G. *webelen weberen, wabelen waberen* 'move hither and thither'): cp. Lith. *vāb-ula-s* 'chafer', O.H.G. *tūhhil* 'mergus'. Further, names of tools (cp. § 150), like O.H.G. *meizil* O.Icel. *meitell* 'chisel' ('cutter'), beside Goth. *māitan* 'to cut', O.H.G. *sluzzil* O.Sax. *slutil* 'key' ('shutter'), O.H.G. *slegil* 'mallet', *stōgil* 'pestle, beetle', *driscil*, also fem. *driscila*, 'flail', *spinnila* 'spindle'. *-ila-* occurs also as a secondary suffix: O.H.G. *reitil wagan-reitil* 'charioteer' from *reita* 'car, carriage'. We have also examples of *nomina agentis* without an *i* preceding the *l*-suffix: O.H.G. *tāhhil* beside *tūhhil*, *staphul* 'grasshopper', *scūwala* 'shovel'.

Diminutives. O.H.G. *bendil* O.Icel. *bendell* m. 'small band, redimicula' Mod.H.G. dial. (Rh.-Frank.) *bendel*, which has lost its diminutive meaning. O.H.G. *stengil* 'stalk' (no longer regarded as a diminutive), from *stanga* 'pole'. The forms have for the most part passed over to the *n*-declension: O.H.G. *scalchilo* m. 'servulus' from *scalch* m. 'servus', *lithhamilo* m. 'corpusculum' from

lāhamo m. 'corpus'; Goth. *mavilō* O.Icel. *meyla* f. 'little maiden' beside Goth. *mavi* f. 'maid, damsel', O.H.G. *niftila* f. 'niece' from *nift* f. 'niece', *turila* f. 'small door' from *turi* f. 'door'; Goth. *barnilō* n. 'little child' from *barn* n. 'child'. Add pet names like Goth. *Vulfila* O.H.G. *Wolfilo* cp. O.H.G. *Wolf-hart*, O.H.G. *Gundilo* cp. *Gund-hart*. Examples of diminutives without an *i* before the *l*-suffix: Goth. *magu-la* m. 'little boy' from *magu-s* m. 'boy', O.H.G. *morhala* f. 'moril, edible mushroom' from *moraha* f. 'carrot', O.H.G. *Bodulo* *Bodalo* by the side of *Bodilo*, O.Icel. *Sinfjǫtli* by the side of O.H.G. *Sintarfizzilo*.

The diminutival *l*-suffix was extended by other diminutival elements. O.H.G. *turilī* (*turilīn*) Mid.H.G. *türlīn* from *turila*, *chindilī* (*chindilīn*) 'little child'; for the origin of this extension see Kluge, *Stammbild.* p. 29. O.H.G. *jungal-ing* O.Icel. *ungl-ingr* 'a youth', O.Icel. *mýslingr* from *mýsla* 'little mouse', which itself is derived from *mús* 'mouse'.

Balto-Slavonic. Lith. *gai-la-s* (and with changed declension *gai-lū-s*) 'ill-tempered, liable to bite (of dogs)' O.C.Sl. (*d*)*zě-lŭ* 'violent': O.H.G. *gei-l* 'ungovernable, petulant, wanton'. Lith. *miġ-là* *myġ-là* O.C.Sl. *mŭġ-la* 'mist': Gr. Hom. *ὁμίχ-λη* 'mist'. Lith. *āk-la-s* 'blind': Lat. *aquilu-s*. O.C.Sl. *strě-la* f. 'arrow': O.H.G. *stra-la* f. 'arrow, flash of lightning'. O.C.Sl. *si-la* 'might, strength' Sloven. *si-la* 'haste', cp. Pruss. *sei-li-* 'earnestness, endeavour, diligence' *seiliska-* 'devotion': it is not clear whether we should compare Skr. *śī-la-m* 'custom, character' or Lett. *sī-t* 'to bind'. Lith. *aũ-la-s* 'leg of a boot' beside *aũ-ti* 'to cover the feet'. Lett. *ē-la* 'road', beside *ī-t* 'to go', cp. Lith. *ei-l-ē* f. Lett. *at-l-i-s* m. 'series, row'. O.C.Sl. *qz-lŭ* *vqz-lŭ* 'knot'.

-llo- may perhaps be traced in the following instances. Pruss. *sirs-il-i-s* O.C.Sl. *strŭš-ilŭ* beside Lith. *szirsz-l-ŷ-s* 'hornet': Dutch *horzel*. Lith. *sprāġ-ila-s* 'flail', beside *sprag-ėti* 'to rustle'. O.C.Sl. *koz-ŭlŭ* (*kozlŭ*) 'he-goat', from *koza* 'goat'. *orilŭ* 'eagle', beside Lith. *erėl-i-s* O.H.G. *aro* m. 'eagle'. O.C.Sl. *sedlo* n. 'saddle' for **sedlŭ* (are O.H.G. *satul* A.S. *sadol* 'saddle' borrowed from some Slavonic language?). *světlŭ* 'luminous' for **světŭlŭ*, from *světŭ* 'light'. In considering the last two words it should

be noted that pr. Slav. *sedlo, *světlŭ would necessarily have appeared in O.C.Sl. as *selo, *světlŭ (I § 545 p. 399, § 548 p. 402). Cp. also Pruss. names like *Butil* (buta- 'house'), *Cantil* (canta- 'endurance').

-s-lo- is not uncommon (cp. -s-li- § 98). O.C.Sl. *tesla veslo*, see p. 199 above. Pruss. *san-insl-e* f. 'girdle' O.C.Sl. *sŭ-vešlo* n. 'band, fetter' *u-vešlo* n. 'diadem' for **ŭgh+s-lo-*, √ *aŭgh-* 'tie, press tight', cp. O.C.Sl. *qz-lŭ* 'knot'. Lith. *mók-sla-s* 'teaching', *kriśla-s* Lett. *kriśl-s* 'refuse, fragment' for **krit-sla-*; *mėsza-s* Lett. *mėsl-s*, both usually in pl., 'dung, sweepings' beside Lith. *mėž-iu* Lett. *mėšchu* 'I cleanse out' (I § 414 p. 303); *gý-sla* 'vein, sinew', cp. O.C.Sl. *ži-la* 'vein'; *ŭsl-ŷ-s* 'one who scents out' *ŭsl-ě* 'nostril' for **ŭtsl-* beside *ŭ'džiu* 'I smell': *mī-sl-ě* 'riddle'. O.C.Sl. *čislo* 'number' for **čit-slo* (cp. *čismę* § 117), *pręslo* 'gradus' for **prentslo* from Slav. *prend-* or *prent-* (see Miklosich, Etym. Wörtl. 262), *maslo* 'oil, salve' beside *maz-ati* 'to smear' (I loc. cit.).

-e-lo-. In Baltic this is preserved in -e-l-*io-*, as Lith. *dīd-eli-s* 'great' (beside *dīdi-s* 'great' like Gr. *μεγάλο-* beside *μείγας*), *er-ēli-s* 'eagle' (cp. O.C.Sl. *orlŭ*); usually with diminutive meaning, as in Lith. *parszēli-s* 'little pig' *galvėlė* 'little head'. Cp. also Pruss. names like *Dargelo Dargels* (*darga-* 'dear'). In Slavonic the simple -elo- also occurs, though rarely: e. g. *dręselŭ* (beside *dręsŭkŭ*) 'sorrowful, peevish', *cvěteli* 'flower', *plěcelŭ* 'weed' beside *plěva* Pruss. *pelwo* 'chaff'.

-o-lo-, -a-lo- or -ə-lo-. In Baltic -ala- is fairly common, as in Lith. *mižalaī* pl. Lett. *mīfals* 'urine', Lith. *ūž-vaikala-s* 'bed-cover' (cp. O.C.Sl. *oblěklo* 'clothing' for **ob-velk-lo*), *āvala-s* 'foot-covering' (cp. *aŭla-s* p. 210), *vėikala-s* 'business', *snaigala* 'snowflake'. In Slavonic it is rarer; O.C.Sl. *sokolŭ* 'falcon'.

Remark 3. For the combinations -o-lo-, -a-lo-, -ə-lo- I can find no sufficiently certain parallels in the other languages to prove that they are genuine pre-Slavonic suffixes. In the case of -o-lo-, Gr. *μαινάλης*; and the like must be disregarded; on the other hand Skr. *karmāra-* 'smith' *vācāla-* 'talkative' and Goth. *slahal-s* might be regarded as positive evidence. -ə-lo- appears in Skr. *ani-la-s* 'wind' (beside *āni-mi*).

Balt. *-ē-la-* *-ē-l-ja-*. This is derived from a verb in *-ē-ti* in Lith. *tekėla-s tekė-l-i-s* 'grindstone, running on an axle' (Lett. *tezzele-i-s*, usually fem. *tezzele*), from *tekėti* 'to run'; and is also found in the numerous *nomina agentis*, which often imply contempt, e. g. *pakljdēli-s* 'rover, gad-about' from *klydėti* 'to wander about', *netlkēli-s* 'ne'er-do-weel' (*tikti* 'to suit'), *padūkēli-s* 'raving madman' (*pa-dūkti* 'to go mad') *nudēgēli-s* 'one ruined by a fire' (*nu-dēges* 'burnt out'). Cp. O.C.Sl. part. *žēlē-lū* beside *žēlēti* 'to wish', *vidēlū* beside *vidėti* 'to see'; see below. Examples of *-ē-l-ja-* as a secondary suffix are *kirmėlė* 'worm' from O.Lith. *kirmi-s*, gen. *kirmio* 'worm', *musėlė* 'fly' from *musė* 'fly'; further, diminutives formed from words of more than two syllables, like *avinėli-s* 'little ram' from *avina-s* 'ram', *kepurėlė* 'little hat' from *kepurė* 'hat', *kirmėlėlė* 'little worm' from *kirmėlė*. The origin of this secondary *-ēl-ja-* is not clear.

-ī-lo-. Lith. *aký-la-s* 'observant' (beside *aký-ta-s* 'furnished with eyes' and *aky-va-s* 'furnished with eyes, inquisitive'), beside *aký-ti* 'to get eyes, become porous'. Cp. O.C.Sl. part. *chvali-lū* beside *chvali-ti* 'to praise'.

In Slavonic the suffix *-lo-*, which formed *nomina agentis*, was used very freely, and hence was developed the so-called part. praet. act. II; as *bi-lū* beside *bi-ti* 'to strike', with *jesmī* practically equivalent to a perfect, 'I have struck'. Other examples are *nes-lū* beside *nes-ti* 'to carry', *by-lū* beside *by-ti* 'to be' (cp. Gr. *q̄v-λo-v*, *q̄v-λi-j*), *zna-lū* beside *zna-ti* 'to know', *dēla-lū* beside *dēla-ti* 'to do, make', *žēlē-lū* beside *žēlē-ti* 'to wish', *chvali-lū* beside *chvali-ti* 'to praise'. Cp. Lat. *legulu-s* 'one who picks (fruit)' O.H.G. *ezzal* 'ravenous' (O.C.Sl. *julū* for **ēd-lū*), *tregil* 'bearer', Gr. *σιγᾶλό-ς* 'silent', *μιμηλό-ς* 'imitative', Lith. *tekėla-s* (runner) 'grindstone', *akýla-s* 'observant'.

Diminutives. Lith. *-e-l-i-s* and *-ė-l-i-s* have been mentioned; with *parszēli-s* compare Lat. *porculu-s* *porcil-ia* O.H.G. *farhel-i* n. 'sucking pig', with *ratēli-s*, Lat. *rotula*. *ragēli-s* 'little horn' may be directly connected with O.C.Sl. *rog-l-ī* Mod.Sloven. *rogelj* beside *rogū* 'horn', though in the Slavonic languages the diminutival sense is lost. The pet names, however, in Slavonic belong

to this class; e. g. Serv. *Božilo* beside *Božo Bogo-ljub*, *Bratilo* beside *Brato Brato-ljub*; cp. Pruss. *Butil Dargelo* p. 211.

§ 77. The European suffixes *-dh-ro-* *-dh-rā-* and *-dh-lo-* *-dh-lā-*¹⁾.

In Greek, Italic, Slavonic, and perhaps also in Germanic, these suffixes are found beside *-tro-* *-tlo-* (§ 61) and *-ro-* *-lo-* (§ 74. 76) with similar meaning. They are used in substantives mainly to denote the means, or a tool, or a locality. They sprang from the coalescence of the so-called 'determinative' *dh* (Skr. *rā-dh-āmi*, Gr. *πλή-θ-ω*, Lat. *pū-b-ēs*, O.C.Sl. *i-d-a*, cp. § 8 Rem. 2 p. 20) with a following *-ro-* *-lo-*, and are therefore parallel to such combined forms as Gr. *-θ-μο-* (§ 72) and to *-s-lo-* (§ 76), and others. Cp. Gr. *ἄρ-θ-ρο-ν* 'joint, limb': *ἄρ-θ-μός-ς* 'joining, connexion'; *βα-θ-ρο-ν* 'step, threshold, seat, foundation': *βα-θ-μός-ς* 'step'; *σx-ε-θ-ρός-ς* 'exact, precise, careful': *σx-ε-θ-έμεν* 'to hold, have' (*σx-ε-θ-* for the normal *σx-ε-θ-* is due to association with *ε-σx-ο-ν* and similar forms, cp. I § 496 p. 364 f.); *κηλη-θ-ρο-ν* 'magic drug': *κηλη-θ-μός-ς* 'enchantment'; *κῆνη-θ-ρο-ν* 'winnowing fan': *κῆνη-θ-μός-ς* 'movement'; Lat. *sta-b-ulu-m*, Czech. *stá-dlo* Lower Sorb. *sta-dlo* 'herd, drove': Gr. *στα-θ-μός-ς* 'standing place', O.C.Sl. Pol. *sta-d-o* Czech *stádo* 'herd'; Lat. *fa-b-er*: Gr. *τε-θ-μός-ς* *θε-θ-μός-ς* 'statute' (for the initial *r-* *θ-* cp. *σκεθρός-ς* *σχεθέμεν*); Italian (Tusc.) *pevera* 'a wooden funnel' = Lat. **plē-b-ra* (beside Lat. **plē-tra* implied in Milanese *pídria* 'wooden funnel' and other forms, cp. Lat. *palpe-bra* beside *palpe-tra*): Gr. *πλή-θ-ω* 'I am full'²⁾ and many similar examples. With the forms having *s*, a Lat. *e* after the root syllable, as Gr. *σx-ε-θ-ρός-ς*, *ἔδ-ε-θ-λο-ν*, *μείλ-α-θ-ρο-ν*, *κρεμ-ά-θ-ρᾶ*, Lat. *illec-e-bra* *mand-i-bulu-m* *condūc-i-bili-s* should be compared (besides *σx-ε-θ-έμεν* mentioned above) *γηθείω* for **γαf-ε-θ-έω* = Lat. *gaudeō* for **gav-e-deō*, *φλεγ-ί-θω*, *νεμ-ί-θομαι*, *ἐργ-ά-θω*, *διων-ά-θω* etc.

1) Cp. Ascoli's essay cited in footnote 1 on p. 118; and Fr. Hanssen, *Die Aktivbedeutung der Adjectiva auf bilis im archaischen Latein*, *Philologus* N. F. I 274 ff.

2) Add here Gr. *πλή-θ-ρο-ν* *εἶδος μέτρου* in Hesychius, if the reading is right.

The great majority of the nouns that belong to this class are certainly later formations which arose independently in the course of the separate growth of the various families of language. Isolated examples may date from older times, cp. Lat. *sā-bula*, *in-sūbulu-m*, Czech *ší-dlo* Pol. *szy-dło* O.C.Sl. *ši-lo* 'punch, awl', common ground-form **sīū-dhlo-* *-dhla-*; Gr. Hom. *λύ-θρο-* 'contamination', Lat. *dē-lū-bru-m* *pol-lū-bru-m*, common ground-form **lā-dhro-*; Lat. *sta-bulu-m* (**stā-*), Czech *stá-dlo* (**stā-*).

In consequence of their equivalent functions and similar sound *-dhro-*, *-dhlo-* were in many cases confused with *-tro-*, *-tlo-*. On this point see § 62 p. 121 f. In Slavonic the older *t*-suffix was completely ousted by the *dh*-suffix; the substitution of the *dh* for *t* is especially clear in the word for 'plough' O.C.Sl. *ralo oralo* Czech. *rádlo* Pol. *radło*, where all the other languages, even Lithuanian, show *-tro-* *-tlo-*.

Remark. Some have wished to derive this suffix from *-thro-*, *-thlo-*. To this hypothesis, it must be confessed, no phonetic objections can be raised (I p. 407 footnote). But its only object is to re-establish the theory of the original identity of this suffix with *-tro-*, *-tlo-*, and I do not see how any probable ground can be given for assuming that the latter had split into double forms at so early a period. In other forms the aspirated tenuis appears for the tenuis in Aryan only (cp. I § 475 p. 350 f., § 553 p. 405 ff.), and hence we may at least demand evidence for the existence of an Aryan suffix *-thra-* = *-tra-*.

To the examples given above a few may be added from the separate groups of languages.

Greek. ὄλι-θρο-ς 'destruction', ἀλγ-θρο-ς 'talkative', μολω-θρό-ς 'miller', τέρ-θρο-ν 'end, point', πλ-έ-θρο-ν πέλ-ε-θρο-ν 'acre, hide of land' (cp. πτ-ε-ρό-ν: Skr. *pat-a-rā-* p. 182), ῥέ(ς)-θρο-ν ῥεῖ-θρο-ν 'stream', μέλπη-θρο-ν 'delight', κόρη-θρο-ν 'besom', ἐπι-βά-θρᾱ 'means of climbing, ladder', κοιμή-θρᾱ 'sleeping-place', ἀλινδῆ-θρᾱ 'place to roll in, place of exercise (for horses)' ῥ-θλο-ς 'cant, empty talk' (from ῥεῖ 'it rains'), ἐσ-θλό-ς 'excellent', θέμε-θλο-ν 'foundation', γένε-θλο-ν and γενέ-θλη 'descent, family, offspring'. Where λ precedes, the form *-θρο-* may sometimes have arisen from *-θλο-* by dissimilation, cp. I § 266 p. 215.

Italic. In proethnic Italic *-dhro-* *-dhlo-* became *-fro-*, *-flo-*. These remained in Umbro-Samnitic, while in Latin they passed into *-bro-*, *-blo-*. See I § 370 p. 281. For the anaptyxis in Lat. *-bulo-*, *-bili-* see I § 269 p. 218. Pr. Ital. **sta-flo-*: Lat. *sta-bulu-m* *sta-bili-s*, Umbr. *sta-flarem* 'stabularem' Pelign. *pri-stafalacirix* 'antistita for **stafla-crīx* = Lat. **prae-stabula-trix*.

Lat. *crī-bru-m*, *flā-bru-m*, *ventilā-bru-m*, *dolā-bra*, *verte-bra*, *tere-bra* and *ē-lece-bra* ('enticer', fem.). *crē-ber* (from *crē-scō*), *candēla-ber* (beside *candēla-bru-m*), *Mulci-ber* (gen. *-berī*, a new formation instead of **-brī*); occasionally the forms have been transferred to the *i*-declension, as *ancla-bri-s*, *ale-bri-s* (beside *ali-bili-s*). *tri-bulu-m*, *pa-bulu-m*, *voca-bulu-m*, *medica-bulu-m*, *lati-bulu-m*, *mandi-bulu-m* and *mandi-bula*, *fā-bula*. Once or twice we find *-i-bulu-m* as a secondary suffix; for example *sessibulu-m* (*sessu-s sessili-s*), *tūribulum* (*tūs*). From this suffix are formed a large number of adjectives which have passed into the *i*-declension, as *sta-bili-s*, *nō-bili-s*, *mō-bili-s*, *flē-bili-s*, *dē-lē-bili-s*, *sāna-bili-s*, *ad-mītrā-bili-s*, *sepeli-bili-s*, *vola-bili-s*, *intel-ligi-bili-s*, *in-vendi-bili-s*. In a few cases *-i-bili-s* is a secondary suffix; e. g. *odibili-s* (*odiu-m*), *illātibili-s* (*il-lātu-s*), *flexibili-s* (*flexu-s*), *persuasibili-s* (*per-suāsu-m*).

Just as *-clo-* became *-cro-* by dissimilation in *lucru-m* (for **lu-clo-m*) and in other words (I § 269 p. 217), so it may sometimes have happened that after a preceding *l*, *-blo-*, *-bli-* became *-bro-*, *-bri-*.

Germanic. The proethnic Germanic forms *-dra-*, *-dla-*, e. g. in O.H.G. *hri-ttara* f. 'riddle, sieve', may represent Idg. *-tro-*, *-tlo-* quite as well as Idg. *-dhro-* *-dhlo-*; cp. § 62 p. 121. O.H.G. *hri-ttara* may be compared equally well with Lat. *crī-bru-m* 'sieve' (which contains Idg. *-dhro-*) or with O.Ir. *criathar* 'sieve' (Idg. *-tro-*). I know of no case where the *dh*-suffix could be identified with any degree of certainty.

Slavonic. O.C.Sl. *želo* 'point, sting' Pol. *żądło*. Czech *by-dlo* Upper Sorb. *by-dło* 'dwelling' Pol. *by-dło* 'cattle, property, means'. O.C.Sl. *črǣpalo* 'scoop' Pol. *czerpa-dło*. O.C.Sl. *klepalo*

'sounding-board (of an instrument), bell' Pol. *klepa-dlo*. O.C.Sl. *cēdilo* 'strainer, filter' Pol. *cedzi-dlo*. O.C.Sl. *bēdilo* 'means for whitening, white paint'.

§ 78. The Suffix *-bho-* *-bhā-*.

This suffix was confined to a small area, and it is only in Balto-Slavonic (and possibly Germanic) that it shows any degree of fertility. As a secondary suffix it was no doubt used even in the proethnic period of Indo-Germanic, to form names of animals. To judge from Sanskrit, in this usage it was generally or always accented.

Indo-Germanic. Skr. *ṛṣa-bhā-s* 'bull' points to an Idg. **ṛsy-bhō-s* (**ersy-bhō-s*) 'bull' beside Avest. *aršan-* 'male, man' Gr. *ἄρσην ἀρσην* 'male'), and we could at once accept the form as really proethnic, if the suggested connexion of Gr. *Εἰραπ-ιώτης* Lesb. *Ἐρραπ-ιώτᾱς*, a title of Dionysus, with Skr. *ṛṣabhā-s* is correct. It does not seem to me, however, that Wackernagel (followed by Solmsen, see Kuhn's *Ztschr.* XXIX 126 ff. 352 ff.) has satisfactorily removed the difficulty of assuming an assimilation of *rs* to *pp* in proethnic Greek.

Aryan. Here the suffix is almost confined to names of animals. In Sanskrit besides *ṛṣa-bhā-s* we have with similar meaning *ṛṣā-bhā-s*, beside *ṛṣan-* 'male, man, bull'. *śarabhā-s* a fabulous creature with eight legs, enemy of the lion and elephant, suggests Gr. *κίραφος* 'fox', *κόραφος* a bird, in Hesych. (compare no doubt *κορώνη*, so that the bird must have belonged to the raven family), *κάλαφος ἀσκάλαφος* a kind of owl. *śarabha-* name of a snake. *rāsabha-s* 'ass' (the only Skr. form with the accent upon the root), from *ras-* 'shriek, roar, bray'.

sthūla-bhā- beside *sthūlá-* 'large, massive'.

Greek. *Εἰραπ-ιώτης*, *κίραφος*, *κάλαφος*, *ἀσκάλαφος*, see above. *ἐλαφος* 'stag' ground-form **elḡ-bho-s*, beside *ἐλλός* for **ἐλν-ος*, O.C.Sl. *jelen-* (gen. *jelen-e*) 'stag', Lith. *ėlu-i-s* 'stag, elk' (cp. § 114). Thus *κόραφος* too (see above) no doubt stands for **korḡ-bho-*, cp. Lat. *corn-ix*. *κιδάφη σκιδάφη* 'fox'. *ἐριφος* 'kid', with which Stokes would connect O.Ir. *heirp erb* (pl. *herbind*) 'capra, damma': this word however cannot have lost

a vowel between *r* and *b* (*p*) (for the *p* cp. I § 524 p. 380).
κόσσυφο-ς Att. *κότυφο-ς* 'thrush'.

κόλαφο-ς 'blow with the fist, box on the ear'. *κρόταφο-ς* 'temple' (of the forehead) beside *κρότος κροτέω*, (named from the pulsation?). Denomin. *ψηλαφάω* 'I grope'. *κέραφο-ς* *σκέραφο-ς* 'abuse, calumny'. *γλήγηφο-ς* 'chattering', subst. 'chatter'. *ἔδαφος* n. 'base upon which a thing rests', no doubt transferred to the *es*-stems by assimilation to *ἔδος* n. *κορυφή* 'peak', cp. *κόρυθ-* 'helmet' *κόρυθο-ς* 'tufted lark'. *ἄργυφο-ς* 'gleaming like silver'.

Other examples of this kind are given in Lobeck *Proleg.* p. 291 ff.

Italic. Perhaps we should class here Lat. *mor-bu-s*, beside *mor-ior*, cp. Lith. *dār-ba-s* and the like (see below).

Old Irish. Perhaps *heirp erb* 'capra, damma'; see above.

Germanic. From this suffix are no doubt derived the Gothic adverbs in *-ba*, as *ubilaba* 'badly, wickedly' *báitriba* 'bitterly', *agluba* 'hardly, scarcely', *ana-láugmiba* 'secretly'.

Balto-Slavonic. Lith. *anksztý-ba-s* 'of an early kind, appearing early', beside *anksztì* adv. 'early', and, modelled on this word, *vėlyba-s* 'of a late kind' beside *velaĩ* adv. 'late'. Further, numerous abstract substantives in *-y-b-ė*, derived from adjectives, as *auksztýbė* 'height, highness' from *áuksztà-s* 'high', *jaunýbė* 'youth' from *jáuna-s* 'young', *bailýbė* 'timorousness' from *bailù-s* 'timorous', *kantrýbė* 'patience' from *kantrù-s* 'patient'; Lettish has preserved the older unextended *-ība*, as *augstība*, *jaunība*. Again we have primary *nomina actionis* in *-yba -ybė*, as *dalybos* pl. 'division of an inheritance' beside *dalyti*, 'to divide', *tikyba tikybė* 'faith' beside *tikēti* 'to believe'; cp. Lett. *tizība* 'faith', *māzība* 'teaching, instruction' (*māzīt* 'to teach'). Lastly there are a few substantives in which we have the suffix added immediately to the root: *dār-ba-s* 'work', hence *darbù-s* 'diligent' and *dārbu* 'I work', beside *darýti* 'to do'; *gar-ba* (Szyrwid) and *garbė* 'honour', hence *garbù-s* 'honourable' and *gerbiù* 'I honour', beside *giriù* 'I praise'; similarly Lett. *schķir-ba* 'a split, rift', beside *schķir-t* (Lith. *skīr-ti*) 'to split, part, divide'.

In Slavonic the suffix appears in substantives in -ba. O.C.Sl. *qtro-ba* 'intestines, belly' beside *ję-tro* 'liver', see § 75 p. 189. 197 f. *zūlo-ba* 'wickedness' from *zūlū* 'wicked'. Serv. *ruĝo-ba* 'disgraceful character' beside *rug* O.C.Sl. *raqū* 'disgrace', *grdo-ba* 'indecenty' beside O.C.Sl. *grīdū* 'proud, arrogant'. O.C.Sl. *tatī-ba* 'thievery, theft' from *tatī* 'thief', *gostī-ba* 'entertainment, cheer' from *gostī* 'guest'. Starting from forms like these -ība became an independent ending, e. g. *družība* 'companionship, friendship', from *drugū* 'companion, friend', *sūlība* 'embassy' from *sūlū* 'ambassador'. Cp. *tatī-stvo*, giving rise to *sūl-īstvo* § 61 p. 117. The use of -ība was extended by the fact that the form became associated with verbs in -i-ti (like *gosti-ti družī-ti*); after this connexion had been established, abstract substantives in -ība were made directly from these verbs (cp. Miklosisch, *Vergl. Gr.* II 213 ff.). A few nouns in -ība were formed from the participle in -tū (-to-), as *ženit-ība* 'wooing, marriage, wedding' (also *ženit-īstvo*), *gostit-ība* 'hospitality', *orat-ība* 'tillage', *sēt-ība* 'sowing'; this group of forms arose during the time when the part. pass. was still formed with -to- in these verbs.

§ 79. The Suffix -to- -tā-.

This suffix was both primary and secondary in the proethnic and later periods. We may classify its usage under four headings.

1. -to- -tā- as a primary suffix in participial adjectives and substantives connected with them¹).

The suffix was used to form a participial noun immediately from the root, e. g. **klū-tó-* 'heard' from *kleu-* 'hear'. This formation must have been very common in the Indo-Germanic period.

The root (in the strict sense, cp. § 8 Rem. 1 p. 20) might, generally speaking, be replaced by any element or combination of elements which acted as a verbal stem; hence forms like **uema-to* 'vomited' Skr. *vami-ta-* Gr. *ἐμε-τό-ς* (*ἐμε-το-ς*) Lat.

¹) Bordelló, *De linguae Latinae adjectivis suffixo to a nominibus derivatis*, Düsseldorf 1873. Birt, *De participiis Latinis quae dicuntur perfecti passivi*, Index lect. Marburg. 1883-84 (cp. with this treatise Osthoff, *Zur Gesch. d. Perf.* 550 ff.).

nomi-tu-s, or like **dorki-to-* 'brought to sight', Skr. *darśi-tā-* Goth. *ga-tarhi-þ-s*, partic. of **dorkeiō*, causal of ✓ *derk-* 'see', and those developed in the separate languages like ἀγανη-τό-ς (*āganāō*) Lat. *piscā-tu-s* (*piscārī*) Goth. *fiskō-þ-s* (*fiskō-n*).

The addition of *-to-* to thematic present stems was no doubt a later process, even though it may have begun in the proethnic period; cp. e. g. Skr. *darś-a-tā-s* 'visible, worth seeing' Gr. ἐρπ-ε-τό-ν 'creeping thing', Gall. *nem-e-to-n* O.Ir. *nemed* n. 'sanctuary' (properly 'what is revered'). Cp. *-e-ti-* § 100. *-o-to-* also may be a proethnic form: Gr. βί-ο-το-ς βί-ο-τις 'life, livelihood', O.Ir. *biad* n. 'livelihood', Lith. *gyva-tā* 'life, livelihood' O.C.Sl. *živo-tŭ* 'life, living thing'.

The meaning of these participial forms was generally passive, and with the exception of the last group (*darśa-tā-s* etc.), that of a perfect participle passive. But the passive sense can hardly have been originally attached to the suffix itself. Numerous forms occur with an active-intransitive sense which dates from the earliest period, such as **bhū-tó-* 'become, grown', **sta-tó-* 'having a position, standing', **sru-tó-* 'having a flow, flowing'. The idea of completion or being complete, and hence of being in a particular condition seems to have been the essential element in the meaning of the forms derived from the verbal stem. Hence we have also active *to*-participles from active verbs, such as O.H.G. *wīs* 'skilful, wise' Gr. ἄ-ιστο-ς 'unskilful', Gr. ἔλ-ητό-ς 'enduring' ὑπ-οπτο-ς 'entertaining suspicion', Lat. *cōn-siderātū-s* 'considerate, thoughtful' *cēnātū-s* 'who has dined' (cp. Mod.H.G. *ein gelernter schlosser* 'a trained locksmith' lit. 'who has learnt', *ein erfahrener mann* 'an experienced man', *ein ehrvergessener mensch* 'a dishonourable fellow', lit. 'one who has forgotten honour' etc.¹⁾

1) It need hardly be assumed that this sense was first introduced into the participles when they were compounded with other words and the meaning of the compound was epithetised (*mutatum*, § 50); e. g. Gr. ἄ-ιστο-ς 'being without anything known, without knowledge', Lat. *in-cōnsiderātū-s* 'being without anything considered, without consideration'; and that it was only on the model of this group of words that the signification was extended to some of the participles when uncompounded.

At the same time, I do not suppose that the use of the *to*-participles is original in Latin deponents, where they share all the constructions of the present *nt*- participle and the finite verb, e. g. *omnia cōfessus* like *omnia cōfitēns* and *omnia cōfiteor*. This usage arose only after compound tenses like *cōfessus sum* had become part of the system of the finite verb.

The idea of completion and of being brought to an end is often replaced by one of capacity or possibility, as in Gr. *λυτό-ς* 'capable of being freed'. This change of meaning is no doubt proethnic in Idg. **morto-s* 'mortal' (Skr. *mārta-* Gr. *βροτο-ς*). But we find that in the separate languages this usage is seldom or never found except in participles compounded with the privative particle, or in some other form of negative expression. Compare, for examples of the first kind, Skr. *á-marta-s* *a-mṛta-s* Gr. *ἄμβροτο-ς* 'immortal', Skr. *a-túrta-s* 'unsurpassable', *á-jīta-s* 'unfading', *á-dadbha-s* 'invulnerable, infallible', *á-parīta-s* 'unconquerable', Gr. *ἄλυτο-ς* 'indissoluble', *ἄμειπτο-ς* 'blameless', *ἀνέκπληκτο-ς* 'not to be confounded, or terrified', Lat. *in-victu-s* 'invincible' *in-fectu-s* 'not to be done, impossible', *in-numerātu-s* 'innumerable', Goth. *un-saht-s* 'incontestable', *un-atgāht-s* 'unapproachable', cp. also O.Ir. *dī-bríthe* 'importabilis'; and of the second, οὐκ ἀνεκτό-ς 'not to be borne', οὐκ ὀνομαστό-ς 'not to be named' in Homer. Hence we may infer that this meaning first arose in negative expressions. It spread most widely in Greek; further examples are *ροητό-ς* 'comprehensible', *θαυμαστό-ς* 'wonderful', *παρό-ς* 'passable, practicable (of roads)'.

In every language we meet with a number of forms in *-to-* which stand in no actual connexion with any verbal system, and are therefore simply adjectives, as Skr. *śī-tá-* 'cold', Lat. *al-tu-s* 'high', Goth. *raiht-s* 'right'. Some of these may date from a period of the proethnic language in which the adjectives formed with *-to-* had not yet been associated with the verb, and thus may never have been participles at all.

Even in the Indo-Germanic period these *to*-formations were often used as substantives, partly to denote living beings (masc.,

fem.) and concrete material things (neut.), partly as abstract substantives (§ 158). In the latter usage this suffix, like *-o-*, is often found in the masculine. The feminine *-tā-*, forming abstract substantives, had even then become secondary. This point will be further discussed in the next section.

The *to*-stems formed immediately from the root usually have the weak grade of ablaut in the root-syllable, e. g. **klu-tó- *klū-tó-*. Beside this, however, we often find the forms of the strong grade, especially in substantival uses. With this is generally united a difference of accent. Cp. e. g. **kléu-to-m* 'hearing' beside **klā-tó-s* 'heard', *mór-to-s* 'mortal' beside **m̃-tó-s* 'dead'¹). Here too it is not clear how the different grades were originally distributed. Compare the relations of the different grades in *ti*-stems, § 99.

Remark 1. Analogy often gave rise to mixed forms. For example, Germ. **múr-þa-n* n. 'murder' beside Skr. *m̃-tó-m* has the accent of **mér-to-* or **mór-to-* (Skr. *már-ta-*), Germ. **zúl-þa-n* n. 'gold' that of **ghél-to-* (Lett. *še'l-t-s*) or **ghól-to-* (O.C.Sl. *zlato*), and *vice versa*, Gr. *μορ-τό-ς* (Hesych., — if the word is rightly accented) beside Skr. *már-ta-s* has the accent of *m̃-tó-* (Skr. *m̃-tá-s*); Gr. *βερό-ς* is a confusion of **βερó-ς* (= **m̃-tó-s*) and **uór-to-ς*. There are many other instances.

So far as I can see, we are not warranted in referring forms like Gr. *μορρά-ς φέρτο-ς*, O.H.G. *hal-d* = pr. (Germ. **hál-þa-z*, O.C.Sl. *zlato* = pr. Slav. **zol-to*, to ground-forms with *f, l* (**m̃-tó-s* etc.), though it would be phonetically possible (see I § 306 p. 241 ff.). Cp. Gr. *κοί-το-ς* *κοί-τη* beside *κοί-ται*, *οί-το-ς* beside *εἰ-μι*, *νόσ-το-ς* beside *νόσσομαι*, *βρον-τή* beside *βρέμω* Lith. *bras-tà* beside *brėdà*, and so forth.

Where participles of this kind have strong-grade vocalism, we can hardly help suspecting in many cases that it is due to the analogy of other forms of the verbal system; e. g. Gr. *δεικ-τό-ς* beside *ἰδεῖσα* etc. contrasted with Skr. *diṣ-tá-s* (from *√deṣk-*).

Indo-Germanic. **klā-tó-* 'heard, famous', *√kleu-*: Skr. *śrutá-s* (Avest. *srūta-*), Gr. *κλυτό-ς*, Lat. *in-clutu-s*, O.Ir. *cloth* (O.Bret. *clot* 'glory'; perhaps f.), O.H.G. *Hlot-hari* Lothair (**Klutróστρωτος* would have the same meaning) *hlūt* ('loud');

1) The use of strong-grade forms as substantives no doubt indicates that originally the Noun had but one set of forms for both its adjectival and its substantival meaning. Isolation from the adjective in use brought with it isolation in form. Cp. § 158.

**kléy-to-m* 'hearing': Avest. *srao-te-m*, Goth. *hliu-p*, and no doubt Mod.Slov. *slu-t* 'suspicion' Serv. *slu-ta* 'who surmises'.
 **sru-tó* 'flowing', √ *sreū-*: Skr. *sru-tá-s*, Gr. *ῥυ-ρό-ς*; Skr. *sru-tá-m* 'a flowing, flood' Lith. *sru-tà* f. 'filthy liquid'; Lith. *srau-ta-s* 'stream, torrent', compare Skr. *srótas-* n. 'stream', extended by *-es-*. **ūs-tó* 'burnt', √ *eus-*: Skr. *uṣ-tá-s*, Lat. *ūs-tu-s*. **i-tó* 'gone', √ *ei-*: Skr. *atīta-* from *ati+ita-* 'disappeared, fled away', Gr. *ἀπαξ-ιρό-ς* f. (scil. *ὁδό-ς*) 'road passable for waggons', Lat. *i-tu-m* (*est*), *ad-itu-s*; Skr. *ē-ta-s* 'hastening', Gr. *ὀ-ρο-ς* 'fate'.
 **qi-tó*, √ *qei-* 'pile, range, count, pay': Skr. *citá-s* 'arranged, piled' Gr. *τι-ρό-ς* 'requited' (in Homer also with *i*, *ἄ-τιρο-ς*); Skr. *ci-tā* 'layer' O.C.Sl. *čr-tū* 'number' *po-člū* 'enumeration'. **ueit-tó*, √ *ueid-* 'see, observe, know': Skr. *vittá-s* 'found, perceived, known' (Avest. *vīsta-* 'found'), Gr. *ἄ-ιστο-ς* 'unknown, unskilful', O.Ir. *ro fess* 'scitum est', Goth. *un-vis* (stem *un-vissa-*) 'uncertain'; Lat. *vīsu-s*, Goth. *un-veis* 'unwise, unskilful' O.H.G. *weis* 'wise' for Idg. **ueit-to-* or **ueit-to-* (O.C.Sl. *věstū* 'known, clear' is for **ueit-to-*); and also O.H.G. *weisa* f. 'way, kind'. **my-tó* **mor-tó*, √ *mer-* 'die': Skr. *mṛ-tá-* 'having died, dead' *a-mṛta-* 'immortal' *már-ta-* 'mortal, man', Armen. *mar-d* 'man' (= **my-tó*, see I § 291 p. 232 f.), Gr. *μορ-ρό-ς βρο-ρό-ς* 'mortal, man' *ἄ-μβροτο-ς* 'immortal', Lat. *Mor-ta* goddess of death, one of the Parcae; Skr. *mṛtā-m* 'death' O.H.G. *mord* n. 'murder': cp. Rem. 1 p. 221.
 **stj-tó* **stj-tó* 'spread out, stretched out': Skr. *stj-tá-* Avest. *star-ta-*, Gr. *στρο-ρό-ς*, Lat. *stra-tu-s*, O.C.Sl. *-strj-tū*; Gr. *σπα-ρό-ς* 'camp, host'. **ugt-tó* 'versus', √ *uert-*: Skr. *vyttá-s*, Lat. *vorsu-s* *versu-s*; Skr. *vyttā-m* n. O.C.Sl. *vřsta* f. 'condition, state, position, stage', Lith. *var̃sta-s* 'a furrow-length'. **mľk-tó* 'milked', √ *melġ-*: Lat. *mulc-tu-s*, Lith. *milsz-ta-s*: Mid.Ir. *mlicht blicht* m. 'milk'. **gm-tó*, √ *gem-* 'go': Skr. *ga-tá-* 'gone, gone out, come' *á-gata-s* 'untrodden', Gr. *βα-ρό-ς* 'trodden, passable', *ἄ-βαρο-ς* 'untrodden, impassable' *δυο-βαρο-ς* 'hard to pass over', Lat. *circum-ventu-s*, and no doubt Lith. *pri-gimta-s* 'inborn' (cp. I § 249 p. 204). **my-tó* 'thought, meant', √ *men-*: Skr. *ma-tá-*, Lat. *com-mentu-s*, Goth. *mun-d-s*, Lith. *miñ-ta-s* O.C.Sl. *mę-tū*; Skr. *ma-tā-m* 'meaning, opinion, purpose' Gr. *αἰρό-μαρο-ς* 'of one's

own design, willingly', Lat. *com-mentu-m* 'idea, invention, plan', O.Ir. *der-met* n. 'forgetting'. **ġn-tó-* **ġn-tó-* 'begotten, born', √ *ġen-*: Skr. *jā-tá-* 'born, son', Lat. *gnā-tu-s nā-tu-s* 'born, son', Gall. *Cintu-gnātu-s* ('first-born'), Goth. *qina-kund-s* 'born of woman' O.Sax. *god-cund* 'born of God, divine' O.Icel. *kun-d-r* 'son'; Skr. *jā-tá-m* 'birth, origin, race'; O.H.G. *kin-d* n. 'child', ground-form **ġén-to-m*. **k̄ps-tó-*, √ *k̄ens-* 'to mention, praise' (Gr. *κόμω-ς* indicates that this belongs to the *e*-series of ablaut; see Solmsen, Kuhn's *Ztschr.* XXIX 123. 329): Skr. *śas-tá-* 'spoken, praised', Osc. *an-censto* nom. sing. fem. 'incensa' *censtom-en* 'in censusum' (Lat. *cēnsu-s* instead of **censtu-s*, Rem. 2 p. 231). **set-tó-* 'seated', √ *sed-*: Skr. *sattá-*, Lat. *ob-sessu-s*; Avest. *pasu-śasta-* m. 'cow-pen' A.S. O.Icel. *sess* m. 'seat', Lat. *sub-sessa* 'ambuscade'. **peq-tó-s* 'cooked', √ *peq-*: Skr. *pak-tá-* Gr. *πεν-τός* Lat. *coctu-s* for **cyec-to-s* (I § 172, 3 p. 152, § 431 a p. 319 f.). **dhə-tó-* **dhē-to-* 'set, placed, laid', √ *dhē-*: Skr. *-dhitū-* *hi-tá-*, Gr. *θε-τός*, Lat. *crēditu-s* for **crēdato-s* (cp. Skr. *śrād-dhita-m* neut. 'trusted, believed'), Lith. *dē-ta-s* 'laid'. **də-tó-*, **t-to-* (i. e. **-d+to-*) and **dō-to-* 'given', √ *dō-*: Skr. *vy-ā-dita-s* 'separated, opened', *dēvā-tta-* 'god-given' Gr. *δο-τός*, Lat. *dā-tu-s*; Skr. *tvā-dāta-* 'given by thee' Avest. *dā-ta-* 'given', Lith. *dū-ta-s* 'given'. Skr. *ā-kāta-m* 'intention', Lat. *cau-tu-s*, beside Skr. *a-kupaṭē* 'he intends' *kav-i-ṣ* 'seer, sage', Lat. *cav-eō*. Skr. *ap-tā-* 'reached, attained, adapted, fit', Lat. *ap-tu-s ad-ceptu-s*, beside Skr. *ap-nō-ti* 'he reaches' Lat. *apiscor*. **siū-tó-* 'sewn', beside Skr. *śiv-yā-mi* 'I sew': Skr. *syū-tá-* Gr. *νο-κάρτερος* ('newly soled'), Lat. *sū-tu-s*, Lith. *siū-ta-s* O.C.Sl. *ši-tū*; Skr. *syū-ta-s* 'sack' Mid.H.G. *siu-t sū-t* m. 'seam'. **uē-to-* **uē-tā-* 'blowing, wind': Skr. *vā-ta-s*, Gr. *ἀή-της* f. *ἀή-της* m., Lith. denomin. *vė-tau* 'I winnow, fan'. **plē-tó-* 'filled', *plē-* 'fill': Skr. *pra-tā-* Lat. *im-plētū-s*. **ġnō-tó-* 'known, recognised', *ġnō-* 'know': Skr. *jñā-tá-*, Gr. *γνω-τός*, Lat. *nō-tu-s*, O.Ir. *gnā-th* ('known, accustomed'), Skr. *ā-jñāta-* Gr. *ἄ-γνωτος* Lat. *ignōtu-s*.

**yemə-tó-* 'vomited', beside Skr. *vāmi-mi* Gr. *ἐμέ-ω* 'vomit': Skr. *vami-ta-* Gr. *ἐμε-τός* Lat. *vomī-tu-s*; Gr. *ἐμε-τος* 'vomiting' (subst.). **ġenə-to-* 'begotten', √ *ġen-*: Lat. *geni-tu-s*; Gr.

γενε-της 'birth, origin', made masculine *γενε-της* 'begetter, offspring' (cp. under Greek p. 229). With respect to the vowel-gradation of the stem these forms stand on a level with such others as Gr. *γενε-τος*, while such forms as Gr. *αμη-τος* (beside *αμα-τος*) no doubt correspond to the Skr. *bhṛ-tā-*.

Causative and Denominative formations: **dorḱi-tō-* from **dorḱéjō* 'I bring to sight, show', $\sqrt{\text{derk-}}$ 'see': Skr. *darṣi-tā-* 'shown' (*darśáyami*), Goth. *ga-tarhi-p-s* 'blameworthy, notorious' (*ga-tarhja* 'I point out, blame'). **yosi-tō-*, from **yoséjō* 'to make put on, clothe', $\sqrt{\text{yes}}$ 'put on something': Skr. *vāsi-tā-* 'clothed' (*vāśáyami*), Goth. *vasi-p-s* 'clothed' (*vasja*). **moni-tō-*, from **monéjō*, $\sqrt{\text{men-}}$ 'think, intend': Skr. *mānitā-* 'honoured' (*mānáyami*), Lat. *moni-tu-s* 'made aware, reminded, taught' (*moneō*); Skr. *mānita-m* 'a showing honour to'. The character of the formations in the several languages is so different, that it is somewhat doubtful whether *to*-participles were formed from true denominatives in Indo-Germanic; cp. e. g. Skr. *mantri-ta-* 'advised, discussed' (*mantráyami*, *mántra-s*), Gr. *δωρη-τος* 'presented with, given' (*δωρέω*, *δῶρο-ν*).

In the separate languages these participles served as the model for a number of adjectives in *-to-* derived immediately from substantives or adjectives, and meaning 'furnished with, made into' and the like; e. g. Skr. *anḱuritā-* 'with young shoots' from *anḱura-* 'young shoot', *arunīta-* 'reddened' from *arunī-* 'red', Gr. *θραυστός* 'tasselled' from *θράυω-ς* 'tassel', Lat. *cordātu-s* from *cor* (*cord-*), *atrātu-s* from *āter*, Goth. *un-qēnīp-s* 'unmarried', from *qēn-s* 'woman', Lith. *kalnāta-s* 'mountainous' from *kálna-s* 'mountain', *bradatū* 'bearded' from *brada* 'beard'.

In Aryan, Greek and Italic *-to-* is used also as a secondary suffix, and added immediately to the noun-stem, just as if this were a verb-stem. In Aryan this only occurs in compounds, so that here *-to-* has the same function as *-jō-* in adjectival compounds (see § 63 p. 126); e. g. Skr. *an-ap-ta-* 'not watery' from *ap-* 'water' Avest. *hu-patar^e-ta-* 'well-winged' from a form **patara-* 'wing' (§ 74 p. 182); cp. Lat. *auro-clāvātu-s*,

Eng. *hare-hearted*, *lily-livered*, and the like (see under Germ. p. 234). Similarly Gr. *ἀ-γέρας-το-ς* 'unhonoured by gifts, unrewarded' from *γέρας* 'gift of honour', *ἀ-χείμαν-το-ς* 'without storms, without cold' from *χείμα χειμῶν* 'storm, winter's cold'; but along with these we have *γίλας-τό-ς* from *γελᾶω*, a denom. verb from **γελας-* 'laugh' (Solmsen, Kuhn's Ztschr. XXIX 109), *ἀκασ-τό-ς* from *ἀκίσσω*, denom. from *ἄκος* n. 'remedy', and the like. Lat. *liber-tu-s* (Falisc. *lofer-ta* 'liberta'), from Lat. *liber*, *scelus-tu-s* from *scelus -er-is*. We may conjecture that the participial *-to-* was added immediately to noun-stems in the class of Indo-Germanic substantives in *-my-to-* and *-uy-to-*, which will be discussed separately in § 82 p. 249. This group of words undoubtedly belongs to the proethnic period.

Examples of *-e-to- -o-to-* are given above, p. 219, and under the separate languages below.

Aryan. Skr. *cyu-tā-* Avest. *šā-ta-* 'driven, shaken': Gr. *ἐπι-συντο-ς* 'pressing forward', ground-form **qiu-tó-*. Skr. *hu-tā-hā-tā-* Avest. *zū-ta-* 'called upon, invoked': Goth. *gu-þ* n. 'God' pr. Germ. **zu-dā-n* n. 'a being that is called upon'. Skr. *stu-tā-* Avest. *stu-ta-* 'praised, lauded'; Skr. *stutā-* n. 'praise' Avest. *stuta-* m. 'praise, prayer'. Skr. *ūdhā-* 'carried', for pr. Ar. **uēdhā-* i. e. **ugh + to-*, Lat. *vec-tu-s*, Lith. *vėsztas* 'carried' ✓ *uegh-*. Skr. *drugdhā-m* 'insult' Avest. *druxta-* O.Pers. *dūrūxta-* 'betrayed, deceived' (cp. I § 482 Rem. 1 p. 356), ✓ *dhreugh-*. Skr. *-i-ta-* Avest. O.Pers. *i-ta-* 'gone': Gr. *ἀμαξ-ιρό-ς* etc., see p. 222. Skr. *si-tā-* 'bound' Avest. *hi-ta-* 'bound, seamed'. Skr. *pri-tā-* 'beloved, dear, glad' Avest. *fri-ta-* 'beloved, kindly': A.S. *frī-d* O.Icel. *frī-ð-r* 'lovely, beautiful'. Skr. *piś-tā-* 'adorned, equipped' O.Pers. *ni-piś-ta-* 'written': Lat. *pīc-tu-s*, ✓ *peisk-*. Skr. (pr. Ar.) *kṛ-tā-* Avest. *ker-ta-* O.Pers. *kar-ta-* 'made', ✓ *qer-*. Skr. *dybdhā-* 'fastened, wound' Avest. *der'wōda-* 'a twist, braid', ✓ *derbh-*. Skr. *śār-tā-* 'destroyed', Avest. *a-sar-ta-* 'unhurt', ground-form **kṛ-tó-*. Skr. *ha-tā-* Avest. O.Pers. *ja-ta-* 'smitten, slain' (cp. I § 454 Rem. p. 335): Gr. *γα-τό-ς* 'killed', common ground-form **ghy-tó-*, A.S. *zūd* f. 'battle' pr. Germ. **zūn-þō*, ✓ *ghen-*. Skr. *bhaddā-* Avest. O.Pers. *basta-* 'bound' (cp. I § 482

Rem. 1 p. 356), ground-form **bhṛdh*+*to-*, √ *bhrendh-*. Skr. *spaṣ-ṭa-* 'visible, clear' Avest. *avi-spašta-* 'watched for, beset by foes': Lat. *ad-spectu-s*, common ground-form **spek-**tó-*, √ *spek-*. Skr. *śiṣ-ṭā-* 'instructed, commanded', Avest. *sas-ta-* 'made known', beside Skr. *śās-ti-* 'he instructs, commands'. Skr. *dī-tā-* 'bound': Gr. *σί-ν-δε-ρο-ς* 'bound together', √ *dē-*. Skr. *sthi-tā-* Avest. *sta-ta-* 'standing': Gr. *στα-τό-ς* Lat. *sta-tu-s* 'standing' *prae-stātu-s* beside *prae-stitu-s*, Goth. pret. *stō-þ* 'I stood' (developed from the partic.), O.C.Sl. *sa-po-statŭ* 'adversarius, foe', √ *stā-*. Skr. Avest. O.Pers. *pā-ta-* 'secured, defended'. Skr. *śrā-tā-* 'cooked' Gr. *ᾠ-κρά-το-ς* 'unmixed'. Avest. **rvāta-* n. 'determination, command' for **vrā-ta-* (I § 157 p. 141): Gr. *φρ-η-τό-ς* 'determined'.

In Sanskrit the use of *-to-* was restricted by that of the parallel suffix *-no-*, which had a similar meaning; see § 66, 1 p. 139 ff.

Skr. *-i-ta-* = *-a-to-* occurs not only in *vami-ta-* (p. 223) but also e. g. in *vani-ta-* 'loved' (aor. *vani-ṣtī-ṭa-*), *dhāmi-tā-* 'kindled' (fut. *dhāmi-ṣya-ti*), *cari-tā-m* 'course' (inf. *cāri-tum*).

-i-ta- in Causatives and Denominatives. Skr. *vēditā-* 'informed', beside *vēdīyati* 'gives to understand, informs'. Avest. *raoīdita-* 'great', from *rud-* 'grow'. Formed directly from the noun: Skr. *avakūṣita-* 'stung' from *avakūṣā-* 'sting, hook', *kārṇa-kītā-* 'having side-branches' from *kārṇaka-s* 'side-branch', *kar-būrīta-* 'speckled' from *karburā-* 'speckled', Avest. *masita-* 'great' from *mas-ah-* *mas-an-* n. 'size' (the connexion of *āsita-* 'quick' with *ās-u-* 'quick' is uncertain); perhaps also Skr. *hārīta-* Avest. *zairita-* 'yellowish' Skr. *palitā-* 'gray' *rōhita-* *lōhita-* 'red' and so forth. Like Skr. *ān-ap-ta-* (see above p. 224) we have also *ā-manyu-ta-* 'harbouring no enmity', from *manyū-ṣ* 'enmity'.

Idg. *-e-to-*. Skr. *darś-a-tā-* Avest. *dar's-a-ta-* 'worth seeing', √ *derk-* 'see'. Skr. *yaj-a-tā-* Avest. *yaz-a-ta-* 'worthy of honour', √ *jaḡ-* 'honour'. Skr. *pac-a-tā-* 'cooked', √ *peq-* 'cook'. *har-ya-tā-* 'wished for, desired', beside *hār-ya-ti* 'he desires, takes pleasure in a thing'. Cp. Skr. *drś-a-tī-ṣ* and the like, § 100.

Many *-to-* participles have quite the character of adjectives. A few examples may be given. Skr. *dyḍhā-* 'firm' (Lat. *forti-s* *forti-s*, transferred to the *i*-decl., √ *dhergh-*), *śyē-tā-* 'white', *śī-tā-* 'cold', *sūr-ta-* 'clear', *trṣ-tā-* 'rough', *tig-itā-* 'sharp', redupl. *rā-rā-ta-* 'dear'. Avest. *sar-ta-* 'cold, cool': Lith. *szāl-ta-s* 'cold'.

Further examples of the substantival value in these forms are: Skr. *dū-tā-* Avest. *dū-ta-* m. 'messenger' (one gone into the distance); Skr. *su-tā-s* 'soma-juice' (that which has been pressed out); Skr. *ghāta-s* 'blow, killing'; Skr. *gār-ta-s* 'high chair'; Avest. *ka-ta-* m. 'grave': Skr. *khā-tā-m* 'grave'. Skr. *bhāḥ-tā-m* 'food, nourishment' (that which has been allotted); Skr. *ghṛ-tā-m* 'fat'; Skr. *ṛ-tā-m* 'right'; Skr. *ās-ta-m* 'home'; Skr. *jīvi-tā-m* 'life'; Skr. *vr-a-tā-m* 'will'; Avest. *taš-te-m* 'the implements of sacrifice'; Avest. *fra-dāte-m* 'help, prosperity'. Skr. *sī-tā* 'furrow': O.H.G. *sī-ta* O.Icel. *sī-ða* f. 'side' ('bounding line, boundary'); Skr. *ak-tā* 'night' (*añj-* 'anoint, adorn'); Avest. *cistā* 'wisdom': Skr. *cittā-m* 'thought, spirit'; Avest. *dī-tā-* 'look': Skr. *dhī-tā-m* 'thought'.

Armenian. *mar-d* 'man' ground-form **mṛ-tó-*: Skr. *mṛ-tā-* etc., see above p. 222. *has-t* 'firm': O.Sax. *fas-t* 'firm', root-form Idg. *pas-* or *pos-*. A doubtful form is *dr-and* 'door-post, threshold': Skr. *ā-tā* 'setting, framework of a door' Lat. *an-ta* four-cornered door-pillar, pilaster' (cp. I § 253 p. 206 f.).

In extended formations: *ard-ar* 'upright': Skr. *ṛ-tā-* 'right, properly made'. *erd-nu-m* 'I swear': Osset. *ar-d ar-t* 'oath', O.C.Sl. *ro-ta* f. 'oath'.

Greek. Here the *to-* participles were less closely connected with the other forms of the verbal system than in Aryan, Italic and elsewhere. They were restricted to the attributive use.

λυ-τό-ς 'that can be loosed' *βου-λντο-ς* 'time when the oxen are unyoked': Lat. *so-lū-tu-s*, O.Icel. *lū-ð-r* 'crushed to powder, exhausted'. *ἄ-γνω-το-ς* 'unknown, ignorant': Skr. *buddhā-* 'awakened, enlightened, made acquainted, known', √ *bheydh-*. *ζευκ-τό-ς* 'yoked, put to': Skr. *yuk-tā-* 'yoked', Lat. *jūnc-tu-s*

(with *n* from *jungo*), O.H.G. *gi-joht* 'yoked'. *τυκ-τός* 'prepared' *νέο-τενκτο-ς* 'newly prepared'. *φυκ-τός* *φευκ-τός* 'that can be escaped'. *ψι-τός* 'disappeared, dead': Skr. *kṣi-tā-* 'exhausted, decayed'. *πιστός* 'trustworthy, true, trustful, trusting' *εύ-πειστο-ς* 'easy to persuade': Lat. *fīsu-s*, *√bheidh-*. *δρα-τός* *δαρ-τός* 'skinned, flayed': Avest. *der'-ta-* 'cut, mown', Lith. *nu-dirta-s* 'skinned'. *φερ-τός* 'bearable, *φόρ-το-ς* 'burden': Skr. *bhṛ-tā-s* 'carried, sustained, hired', O.Ir. *ed-bart ed-part* f. 'oblatio'. *κλασ-τός* 'shattered' (*κλαδ-*, aor. Hom. *κλάσσαι*): Lat. *per-culsu-s*, common ground-form **kʷl-tō-*, i. e. **kʷl-d + to-*. *τα-τός* 'ductile': Skr. *ta-tā-s* 'stretched, extended', Lat. *ten-tu-s*, common ground-form **tṇ-tō-s*, *√ten-*. *άν-εκτός* 'tolerable': Skr. *sadhā-* 'overcome' for pr. Ar. **sādhā-* (I § 404, 2 p. 299), *√segh-*. *ζεσ-τός* 'boiled': Skr. *prā-yastu-s* 'boiling over', *√jes-*. *σεπ-τός* 'before which one recedes, honoured with reverence, holy': Skr. *tyak-tā-* 'forsaken'. *άρ-ετο-ς* 'loosened, let go': Lat. *sa-tu-s*, O.C.Sl. *na-sētū* 'sown', *√sē-* 'throw, cast, sow'. *ά-ατο-ς* 'insatiable': Goth. *sa-p-s* 'sated', Lith. *so-ta-s* 'repletion', *√sa-*. *ἐμ-πληκτο-ς* 'struck, amazed' *πλήκ-τη-ς* 'striker': Lat. *planc-tu-s* with the nasal of the present (*plangō*) inserted, Lith. *plāk-ta-s* 'struck with the rod', *√plaq-plag-*. **πακ-το-* in *πακτώω* 'I make fast' *πηκ-τός* 'fast joined' *πηκ-τή* 'net fixed in its place': Lat. *pac-tu-s*, (*com-pectu-s*) and *pāc-tu-s* (? Osthoff, Zur Gesch. d. Perf. 178 f.), *√pāk-pāḡ-*. *ἐπ-ακτός* 'brought in': Lat. *āc-tu-s*, Gall. *amb-actu-s* orig. 'he who is sent about, messenger' (cp. O.Ir. *imm-agim* 'I drive about'), *√aḡ-*. *έύ-ννητο-ς* 'well spun, woven': Lat. *nē-tu-s*, common ground-form **snē-to-s*. *βλη-τός* 'thrown, struck', cp. Skr. part. *glā-na-* 'exhausted, ill', Idg. *glē-*. *πλω-τός* 'swimming, navigating, navigable', cp. Goth. *flō-du-s* 'flood' (suffix *-tu-*).

ά-δάμα-το-ς 'unsubdued' beside *δμη-τός* 'subdued': Skr. *dam-i-tā-* 'tamed'. *κάμα-το-ς* 'toil' beside *πολύ-κμητο-ς* 'wrought with toil'. *θάνα-το-ς* 'death' *ά-θάνατο-ς* 'immortal' beside *θνη-τός* 'mortal'. *ά-δάμα-το-ς*: *δμη-τός* = *φερ-τός*: Skr. *bhṛ-tā-s*, see p. 224 above.

άγαπη-τός Dor. *άγαπα-τός* 'beloved' from *άγαπάω*. *κοσμη-τός* 'set in order' *κοσμή-τη-ς* 'orderer' from *κοσμέω*. *χολω-τός*

'enraged' from *χολόω*. *μηνί-της* 'wrathful man' from *μηνίω*. *ἀρτυ-τό-ς* 'prepared, seasoned' (of meats) from *ἀρτύω*. *πορευ-τό-ς* 'wandering' from *πορεύω*. *ἄκεσ-τό-ς* 'curable' from *ἀκέομαι* for **ἄκεσ-λο-μαι*. *ἔμερ-τό-ς* 'longed after, lovely' from *ἔμείρω*. *ἔφαν-τό-ς* 'woven' *ἔφάν-της* 'weaver' from *ἐφαίνω*. *ληϊστό-ς* 'captured' from *ληΐσσομαι*. *ὀνομαστό-ς* 'that can be named' from *ὀνομάζω*. Examples of words formed directly from nouns are: *κοντιωτό-ς* 'furnished with punting poles' (*κοντό-ς*) *καρυντό-ς* 'shaped like a nut' (*κάρυον*); words like these gave the type from which *σαλπιγγ-ωτό-ς* 'shaped like a trumpet' (*σάλπιγγ-*) and others of the same kind were formed; further, *ἀ-γέραςτο-ς* 'without gifts of honour' (*γέρας*), *ἀτρίβαστο-ς* 'not worn, unharmed' (beside *ἀτριβής*), and other words.

Idg. *-e-to-* (cp. *-e-ti-* § 100). *ἔλε-τό-ς* 'that can be grasped'. *εὔρε-τό-ς* 'to be found', *εἰρε-τή-ς* 'inventor'. Denominative forms: *ναε-τάω* 'dwell', *ἀρι-δείκετο-ς* 'worth seeing, remarkable'. *δακε-τό-ν* 'biting creature'. Cp. also *ἀν-ήνωτο-ς* 'that cannot be completed' beside *ἀ-νύ-ω* (Skr. *sa-nó-mi*), *πι-νν-τό-ς* 'wise' for **πν-νν-το-* I § 48 p. 41 (cp. Skr. *pu-ná-mi* 'I purify, clear up'); these words therefore contain the *-νεμ- -νν-* which is used in forming the present stem. With *-o-to-*: *βίω-το-ς* *βιω-τή* 'life, livelihood': O.Ir. *biad* etc., see above, p. 219.

Further examples of substantives formed with this suffix are: *νόσ-το-ς* 'return home': Skr. *ás-ta-m* Avest. *as-te-m* 'home' for **ys-to-m* (Bartholomae, Kuhn's Ztschr. XXIX 483), O.H.G. *hes-t* n. 'provision for the way, support'. *βλασ-τό-ς* *βλάσ-τη* 'bud, shoot', *κοῖ-το-ς* *κοί-τη* 'couch', *ἄμη-το-ς* 'mowing, harvest', *ἄω-το-ς* 'wool, flock (of wool)', *ἀλαλη-τό-ς* 'battle-cry', *κωκῦ-τό-ς* 'wail', *ἔμε-το-ς* 'vomiting', *θε-τό-ς* 'rain'. *φυ-τό-ν* 'growth', *σπάρ-το-ν* *σπάρ-τη* 'rope', *πο-τό-ν* 'drink'. *κίσ-τη* 'chest, box', *εἰρκτή* *ἐρκτή* 'cage, prison', *βρον-τή* 'thunder', *ἐν-ετή* 'brooch', *ἄκ-τή* 'rugged coast', *ἀή-τη* 'blast, wind', *αὔ-τη* 'shout', *τελευ-τή* 'ending', *ἀρε-τή* 'virtue', *γαμε-τή* 'wife', *πινν-τή* 'understanding'. Abstract *tā-* stems were employed to denote persons of the masculine gender (§ 149. 157); hence came the large class of masculines in *-tā-ς*, like *γενέ-της* act. 'begetter', pass. 'he that is begotten' beside *γενε-τή* 'origin, birth',

and *κρι-τή-ς* 'judge', *δέκ-τή-ς* 'receiver', *προ-φητή-ς* 'interpreter of oracles, soothsayer', *ποιη-τή-ς* 'maker, poet', *ἐδνω-τή-ς* 'bride's father', *ἰκέ-τη-ς* 'suppliant'; cp. § 80 p. 239 f.

Italic. In this group of languages the *to-* participles filled a larger and more important place than in any other.

Lat. *i-tu-m i-tāre*, Umbr. *etato* 'itate': Skr. *-i-tu-* etc., see p. 222 above. Lat. *scrip-tu-s*, Umbr. *screiktor* pl. 'scripti' Osc. *scriptas* pl. 'scriptae'. Lat. *fisu-s*, cp. Umbr. *Fisiu Fissiu* (a derivative in *-io-*) abl. 'Fisio': Gr. *πιστό-ς*, *√ bheidh-*. Lat. *mulsu-s* part., *molta multa* 'punishment', Umb. *motar* gen. 'multae', Osc. *moltam* 'multam' pr. Ital. **molk-tā-*: Skr. *myś-tā-* part. of *myśāmi* 'I take hold of, touch'. Lat. *or-tu-s*, Umbr. *ortom* 'ortum' ground-form **r-to-*: Gr. *νέ(f)-οτρο-ς* 'newly arisen' *κονι-οτρό-ς* 'raising of dust, cloud of dust', ground-form **ǵ-tō-*, cp. Skr. *tr-ṇa-*. Lat. *censu-s*, Osc. *an-censto* fem. 'incensa': Skr. *śas-tā-*, see p. 223 above. Lat. *ēm-p-tus*, Umbr. *emps* 'emptus' *da-etom* 'demptum', for the *p* see I § 207 p. 174. Lith. *isz-iñta-s* 'taken out'. Lat. *ūsu-s*, Pelign. *oisa* abl. 'usa, consumpta', beside the pres. Lat. *oetor ūtor*. Lat. *sanc-tu-s*, Umbr. *sahta sahatam* 'sanctam', Osc. *saahatum* 'sanctum'. Lat. *sta-tu-s prae-stātu-s*, Umbr. *Prestotar* (*o = a*, see I § 105 p. 98) gen. 'Praestatae' Osc. *statum* 'statum, statutum' Staatiis 'Statiis': Skr. *sthi-tā-* Avest. *stā-ta-* etc., see p. 226 above. Lat. *piā-tu-s*, Umbr. *pihaz pihos* 'piatus'. Lat. *lēgā-tu-s*, Osc. *ligatūis* 'legatis'. Lat. *finī-tu-s*; Umbr. *stati-ta* pl. 'statuta'; Osc. *καπίδιου* i. e. *kapid-i-to-m* 'ollarium' (beside Lat. *capis -idis*). Lat. *geni-tu-s*, Osc. *Genetai* 'Genetrici': Gr. *γενε-τή* 'origin, birth'. Lat. *taci-tu-s*, Umbr. *taðez* 'tacitus' *tasetur* pl. 'taciti'.

Lat. *ex-ūtu-s*: Lith. *isz-aūta-s* 'stripped' *aū-ta-s* 'rags for the feet'. *ci-tu-s* Skr. *śi-tā-s* 'excited, put in motion'. *in-certu-s*: Gr. *ἄκριτο-ς* 'undistinguished' (cp. I § 33 p. 33 f.). *re-lictu-s*: Skr. *rik-tā-s rik-ta-s* 'cleared, empty', Gr. *ἀ-διά-λυπτο-ς* 'uninterrupted', Lith. *pri-likta-s* 'allowed by fate, allotted'. *tortu-s* for **torc-tu-s*: Gr. *τρεπ-τό-ς* 'that can be turned, moved round'. *pulsu-s* from *pellō*. *linctu-s*: Gr. *τεγκ-τό-ς* 'wetted, softened'. *lēc-tu-s*: Gr. *λεκ-τό-ς* 'collected, that can be spoken'. *esu-s*: O.H.G.

as n. 'food for animals', Lith. *su-ėsta-s* 'eaten up' O.C.Sl. *jas-to* 'food', ✓ *ed-*. *ca-tu-s*: Skr. *śi-tā-s* 'whetted, sharpened'. *unctu-s*: Skr. *ak-ta-s* 'anointed'. *scissu-s* Gr. *αἰσρό-ς* 'split'. *quē-tu-s*: Avest. *šata-* 'happy' i. e. **šyāta-* for **cyā-ta-* (cp. *šaiti-* = O.Pers. *šiyati-* and I § 448 p. 333). *frē-tu-s*, *con-flatu-s*.

Remark 2. The ending *-so-s*, which had a regular phonetic origin in *scissu-s visu-s ēsu-s morsu-s per-culsu-s* and similar forms, spread beyond its proper sphere, e. g. *lapsu-s*, *fixu-s*, *sparsu-s*, *mulsu-s* (beside *mulctu-s*), *censu-s*, *hausu-s* (beside *haustu-s*). This was furthered by the analogy of the *s*-perfect. The parallelism of *con-cussu-s*: *con-cussi*, *laesu-s*: *laesi*, *sēsu-s*: *sēsi* gave rise to *fixu-s* beside *fixi*, *sparsu-s* beside *sparsi*, etc. On the analogy of *pendō*: *pēnsu-s*, we find *in-tēnsu-s* formed beside *ten-tu-s* (pres. *tendō*), cp. p. 161 footnote 2. Conversely we have *com-ēstu-s* instead of *com-ēsu-s* on the analogy of *haus-tu-s ges-tu-s*.

In Latin the terminations *-o-to- -i-to- -e-to-* became indistinguishable. *molī-tu-s* (*molere*), *ali-tu-s* beside *al-tu-s* (*alere*), *pt(n)si-tu-s* beside *pt(n)su-s* (*pīnsere*), O.Lat. *ad-gretu-s* for **-gred(i)-to-s* (I § 501 Rem. 2 p. 368) beside *ad-gressu-s* (*ad-gredi*); *moni-tu-s* (*monēre*); *habi-tu-s* (*habēre*); *domi-tu-s* (*domare*), *veti-tu-s* beside *vetā-tu-s* (*vetāre*), *im-plicitu-s* beside *im-plicatu-s* (*im-plicare*). Cp. the abstract nouns in *-itiō* § 100.

prīvā-tu-sa mā-tu-s etc. *olētū-m* 'ordure', *monē-ta*. *vestī-tu-s*, *finī-tu-s* etc. *statū-tu-s*, *tribū-tu-s* etc. Participles were formed directly from nouns more frequently in Italic than in the other groups of languages: *ānsā-tu-s* from *ānsa*, *barbā-tu-s* from *barba*, *atra-tu-s* from *āter*, *aurī-tu-s* from *auri-s*, *cinctū-tu-s* from *cinctu-s* (gen. *cinctūs*) and, by a further transference of ending, e. g. *gradātu-s* from *gradu-s* (gen. *gradūs*), *arcuātu-s* from *arcu-s* (gen. *arcūs*), *dentātu-s* from *dēns* (gen. *dent-is*), *galēritu-s* from *galēru-s*, *patrītu-s* from *pater*, *nāsūtu-s* from *nāsu-s*. An isolated example has *-ōtu-s*: *aegrōtu-s* from *aeger* (stem *aegro-*). *-to-* is also added immediately to the stem as a secondary suffix; e. g. *liber-tu-s* Falisc. *loferta* 'liberta', *jās-tu-s*, *sceles-tu-s*, Umbr. *mersto* 'iustum' = **mers-(e)s-to-* **med-(e)s-to-* from *meř-s mers* 'ius', Lat. *onus-tu-s*, *vetus-tu-s*, *ūber-tu-s*, *senec-tu-s*; often to denote places which contain anything, as *arbus-tu-m*, *cārec-tu-m*, *virgul-tu-m*. Hence come also the

adjectives in *-ōnsu-s -ōsu-s*, as *formō(n)su-s vlrōsu-s*, for *-ouensso-* i. e. *-o-uyt + to-* (see I § 238 p. 199 f., § 501 p. 368, II § 127): cp. Avest. *āṣavasta-* 'pure, upright' (n. 'purity, uprightness' from *āša-vant-* 'possessed of purity, pure, upright').

Adjectives. Lat. *sanctu-s* Umbr. *sahta* Osc. *sahtum*, see p. 230 above. Lat. *citu-s*, *catu-s*, *curtus*, *stlatu-s latu-s* 'outspread, wide' (for **stf-to-*, cp. O.C.Sl. *stelja* 'sterno'), *ex-celsu-s*, *pēnsu-s*, *at-tentu-s*, *altu-s*, *beatu-s argutu-s*, and other examples.

Substantives. Lat. *lēgatu-s* Osc. *līgatúis* 'legatis'; Lat. *hortu-s* Osc. *húrtum*: Gr. *χόρ-το-s* 'grass, place for grazing, courtyard', O.Ir. *gor-t* 'seges' *lub-gort* 'vegetable garden' (cp. I § 389 p. 291); Lat. *lectu-s lectu-m* 'lying-place', *lutu-s lutu-m*, *cubitu-s*, *palātu-s palātu-m*. Lat. *dictu-m*, *jussu-m*, *strātu-m*, *tēctu-m*, *in-cestu-m*, *olētu-m*. Lat. *multa* Umb. *motar* Osc. *moltam*, see p. 230 above, Lat. *Vesta*, *of-fēnsa*, *im-pēnsa*, *re-pulsa*, *sub-sessa*, *secta*, *fossa*; Umbr. *totam* 'civitatem'. Osc. *toeto rof-ro* 'civitas' pr. Ital. **toytd-*: O.Ir. *tuath* f. 'people', Goth. *þiuda* 'people', ground-form **teytd-*, $\sqrt{\text{tey-}}$ 'tumere'.

Old Irish. The participial *-to-* still survives as a verbal suffix, in the preterite passive, a periphrastic formation which is only found in the 3. sing. and 3 pl. (the verb substantive has been dropped). *ro alt* 'educatus est' (*alim* 'educō'): Lat. *al-tu-s*. *ro chét* 'cantus est' (*canim* 'cano'): Lat. *can-tu-s*. *do-bréth* Mid.Ir. 'datum est' (*do-biur* 'I bring, give'): Skr. *bhṛ-tā-* etc. *ro fess* 'scitum est': Skr. *ritā-* etc. *ro both* 'one was': Gr. *gr-ró-s* 'growth' Lith. *bū-ta-s* 'dwelling, house' Skr. *bhū-tā-* 'become'. *ro chlaist* 'auditum est', $\sqrt{\text{kleu-}}$. *ro erbad* 'commissum, creditum est' beside pres. 3. sing. *erbaid* 'credit'. This group of forms no doubt sprang from the impersonal use of the neuter.

In some words the old participial form has a purely adjectival value. *necht* 'pure': Skr. *nab-tā-* 'washed'. Gr. *ā-netto-s* 'unwashed'. *clach* 'famed': Skr. *śru-tā-* etc., see p. 221 *mocht* 'naked': Goth. *nopah-s*. *guth* 'known, accustomed': Skr. *jñā-tā-* etc., see p. 221. Generally the participles which were used as adjectives were not also used as the pret. pass., cp. *clach* beside *ro chlaist*.

The participial meaning still survives in *-the*, an extension of the suffix by *-io-* (ep. Gr. ἀμφορόσιος: ἄμφορο-ς, Skr. *mārtiya-*: *mārta-*, O.H.G. *wīsi* 'wise' Mid.H.G. *sīhte* 'shallow'). *brithē brethe* 'brought': Skr. *bhṛ-tā-*, *cēte* 'cantus'. *er-ite* 'susceptus' beside 3. sing. pres. conj. *-air-ema* 'suscipiat': Lat. *ēm-p-tu-s*. *tuicse* 'electus' beside *to-gu* 'choice', from *-gus-t-ijo-*: Skr. *juṣ-tā- jūṣ-ṭa-* 'beloved, desired', Gr. γεύο-ρό-ς 'tasted, to be tasted', A.S. *ge-cost* 'valuable' √ *geus-*. Sometimes the idea of capacity, possibility is implied, as in *rithe* 'vendible' (also 'sold, given up') beside *re-nim* 'I give up, sell', *dī-brithē* 'importabilis'. There is certainly a connexion between the use of *-the*-forms as participles, and the conversion of the predicative *-to*-participle into a preterite passive. Preference was given to the existing *-tjo*-forms in order to make a distinction in form answering to the distinction in sense; and then new *-tjo*-forms were made at will and used as participles. The same thing happened in Cymric; only the suffix employed there for the participles was not *-t-jo-*, but *-(e)tic* which came from *-t-ico-* (Zeuss-Ebel, Gr. C. p. 532).

On the other hand, we have the simple *-to- -tā-* in partec. used as substantives. *gor-t* m. 'seges': Gr. χορ-ρο-ς, see p. 232 above. *mlicht blicht* m. (Mid.Ir.) 'milk': Lat. *mulcto-* etc., see above p. 222. *der-met* n. 'a forgetting': Skr. *ma-tā-m*, see p. 222 above. *nemed* (Gall. *neme-to-n*) n. 'sacred thing' ('something honoured'), √ *nem-*. *dliged* n. 'law'. *biad* n. 'means of livelihood': Gr. βίο-ρο-ς βίο-τή 'life, livelihood' etc., see p. 219 above. *both* f. 'dwelling-place, hut'; cp. above *ro both*. *loth* f. 'filth': Lat. *lu-tu-s lu-tu-m*. *breth* f. 'judgement, sentence'. *im-thecht* f. 'going round, change'. *ed-bart ed-part* f. 'oblatio'.

Cp. Gall. *amb-actu-s* 'bondman, servant' orig. 'one sent about, messenger' (see p. 228), *Celtu-s Crestu-s Ate-gnatu-s Ate-gnata*, *Tauaroi* pl. ('pilati'), *Sematu-s Cirata*, and many similar forms.

Germanic. *-to-* was a living participial suffix in derivative verbs (Causative and Denominative), e. g. Goth. *nasip-s* O.H.G. *gi-nerit* 'saved' from *nasjan nerien* 'to save'; Goth. *ga-tarhīp-s* 'blame-worthy, notorious' from *ga-tarhjan* 'to mark out, blame': Skr. *darśitā-* 'shown'; *pāursip-s* 'thirsty' from *pāurscip mik* 'I am

thirsty', lit. 'it thirsts me': Skr. *trṣṭā-* 'thirsty'; Goth. *salbōþ-s* O.H.G. *gi-salbōt* 'anointed' from *salbōn* 'to anoint'; Goth. *habáiþ-s* O.H.G. *gi-habēt* 'had' from *haban habēn* 'to have'. Further in Gothic, we have such partec. attached to the preterite-presents, e. g. *mund-s* 'meant, thought' beside *man* 'I think, mean': Skr. *matā-* etc., *skuld-s* 'owed' beside *skal* 'I ought, maht-s 'able, possible', beside *mag* 'I can'. Lastly they occur in certain strong verbs which have preterites in *-ta*, e. g. Goth. *vaurht-s* O.H.G. *gi-worht -woraht* beside Goth. *vaurkjan* O.H.G. *wurchen* 'work': Avest. *varšta-* 'worked, done' Gr. ἀρρομένο *undone* ✓ *uer-g-*, Goth. **þāht-s* O.H.G. *gi-dāht* (pr. Germ. **þunæχ-ta-*, I § 214 p. 181) beside *þugkjan dunken* 'to seem', Goth. **braht-s* O.H.G. *braht* (pr. Germ. **branæχ-ta-*) beside *briggan bringan* 'to bring'. In all other cases *-eno-* *-ono-* was the participial suffix in use (§ 67 p. 149 ff.), and in O.H.G. it appears also in preterite-presents (*gi-wizzan* from *weiz* 'I know', *gi-torran* from *gi-tar* 'I dare', and occasionally in the strong verbs with *t*-preterites (*brungan*, side by side with *brāht*).

The suffix also formed participles directly from nouns. Goth. *un-qēniþ-s* 'not having a wife', from *qēn-s* 'woman'. O.H.G. *gestirnōt* 'having a brow or front' from *gistirni gestirne* n. 'brow', Mid.H.G. *ge-jāret* 'aged' lit. 'be-yearred'. O.Icel. *hærd-r* 'covered with hair'. In the development of Anglo-Saxon and Norse there appears a special group of adjectival compounds derived in this way, e. g. Engl. *hare-hearted*, *hare-lipped*, *bare-footed*, *bare-headed*, O.Icel. *bjart-litad-r* 'bright-coloured', *sex-hofdad-r* 'six-headed', *gull-billad-r* 'with golden bridle': cp. Skr. *án-apla-* 'not watery' Lat. *auro-clavatu-s* p. 224.

Idg. *-e-to-* is no doubt to be traced in O.H.G. *hulid* n. 'velamentum', *egida* f. 'harrow' (: Mod.Cymr. *oged* O.Corn. *ocet* 'harrow') and other words. *-o-to-* in Goth. *naqap-s* beside O.Icel. *nekkveð-r nekkveid-r* O.Ir. *nocht* 'naked' (cp. Skr. *nag-na-* with the participial suffix *-no-*), Goth. *linhap* n., side by side with O.H.G. *lioht* n. 'light'.

It is common in adjectives. Further examples are: Goth. *vun-d-s* O.H.G. *wunt* 'wounded': Gr. *φατο-* in *φατάλαι*, *οἷλαι*

(Hesych.). Goth. *bi-ūht-s* 'accustomed': Lith. *j-ūnkta-s* 'accustomed' (cp. Osthoff, Paul-Br. Beitr. VIII 269). O.H.G. *zorah-t* O.Sax. *torht toroht* 'clear, bright': Skr. *dyṣṭá-s* 'seen', common ground-form **dyk-tó-*. Goth. *faúrht-t-s* O.Sax. *forht* 'timid'. O.H.G. *zar-t* 'dear, fine, beautiful' beside Skr. *ā-dṛta-s* 'considerate, treated with consideration, honoured'? Goth. *kāl-d-s* O.H.G. *kalt* 'cold': cp. Lat. *gelu*, O.C.Sl. *gol-olŭ* 'ice'). Goth. *raih-t-s* O.I.L.G. *reht* 'right': O.Pers. *rāsta* 'upright, just' (for **rāsta-* 'on the analogy of forms with *raz-*'), Gr. *ὑπεκτός* 'extended, outstretched', Lat. *rēctu-s*, ground-form **rēk-to-*, √ *reḡ-*. Goth. *balrh-t-s* O.I.L.G. *beraht* 'bright'. O.H.G. *lioh-t* 'beaming'. Goth. *dáu-þ-s* O.H.G. *tō-t* 'dead', from O.H.G. *touwen* 'to die'. Goth. *haft-t-s* O.H.G. *haft* 'captured, fettered': Lat. *cap-tu-s*.

Substantives. Goth. *mō-þ-s* (stem *mō-da-*) 'anger' O.I.L.G. *muot* m. 'spirit, mind, courage', beside O.C.Sl. *sū-mē-ti* 'to dare'. A.S. *ðroh-t* m. 'work' O.Icel. *þrōtt-r* 'strength', cp. O.I.L.G. *drucchen* 'to press'. O.I.L.G. *haf-t* m. n. A.S. *haeft* m. O.Icel. *hapt* n. 'bond, fetter', cp. Goth. *haft-s* 'captus'. O.H.G. O.Sax. *fros-t* A.S. *forst* m. O.Icel. *frost* n. 'frost', beside O.H.G. *friosan* 'to freeze'. O.H.G. *gi-iaht* m. 'mention, fame', beside *gi-iauoγ* 'he made mention of': Skr. *uk-tá-* 'spoken', √ *ueq-*. O.H.G. *mor-d* n. O.Icel. *morð* n. 'murder, killing': Skr. *mṛ-tá-m-* 'death'. Goth. *gul-þ* O.H.G. *gold* n. 'gold': Lett. *fe'l-t-s* O.C.Sl. *zla-to* 'gold', √ *ghel-* 'to shine with a yellow gleam'. O.H.G. *pro-d* n. O.Icel. *broð* n. 'broth': Lat. *dē-fru-tum -frūtu-m*. Goth. *þiu-þ* O.Icel. *þjóð* n. 'good' (subst.). Goth. *hliu-þ* 'listening to, attention, silence' O.Icel. *hljóð* n. 'hearing, sound': Avest. *srao-te-m*, see p. 221 f. O.H.G. *ferid* n. 'navigium' *zimbrid* n. 'building'. Goth. *skanda* O.H.G. *scanta* f. 'shame' beside the adj. O.I.L.G. *scan-t* 'ashamed' (cp. O.H.G. *scama* 'shame'). O.H.G. *wun-ta* 'wound', beside *wunt* 'wounded', *scar-ta* 'notch, wound', beside *scart* 'injured, mutilated', *forah-ta* 'fear', beside Goth. *faúrht-s*

1) Do the last two words, *zart* and *kalt*, come from Idg. **dṛ-to-* **gī-to-* or **dor-to-* **goi-to-*? There is the same doubt as to O.H.G. *scar-t* 'injured, mutilated'.

'fearful, timid'. Goth. *ras-ta* 'a length of road' O.H.G. *rasta* 'rest, repose, a length of road'. O.H.G. *slah-ta* 'killing, slaughter'. A.S. *zād* f. 'battle' pr. Germ. **zūn-pō*: Skr. *ha-tā* 'slain'. Goth. *us-fartō* f. (n-decl.) 'a going out' (*usfarþōn gatāujan us skipa* i. e. 'to suffer shipwreck'). Goth. *þiu-du* O.H.G. *diota* 'people': Osc. *tocto* etc., see p. 232 above.

Balto-Slavonic.

In Lithuanian the *to*-participle is still in regular use with a passive sense in verbs of all classes. *gīr-ta-s* 'famed': Skr. *gār-ta-s* 'approved, welcome, pleasant', ground-form **gṛ-to-* and **gṛ-to-*. *pil-ta-s* 'poured, shed': Skr. *pār-tā* 'filled', ground-form **pl̥-to-* and **pl̥-to-*. *kiršta-s* 'hewn' (pres. *kert-ū*): Skr. *kṛtta-s* 'cut off, split', ground-form **qr̥t̥-tō-*, √*qert-*. *sūk-ta-s* 'turned' (pres. *suk-ū*). *at-sēkta-s* 'traced out, found out': Lat. *sec-ta sectari*. *dē-ta-s* 'laid' (pres. *dedū*): Skr. *-dhi-ta-* etc., see p. 223 above. *jėszkō-ta-s* 'sought' (pres. *jėszkau*). *pa-veizdēta-s* 'examined, revised' (pres. *pa-veizdmi*). *tāiky-ta-s* (properly united' (pres. *tāikan*). *auksin-ta-s* 'gilded' (pres. *auksinu*). *balnū-ta-s* 'saddled' (pres. *balnū'ju*). Also act.-intrans., but only rarely, as *bū-ta* neutr. 'been', e. g. *czion grā būta* 'people have been here' ¹): Skr. *bhū-tā* 'become': *važiū-ta-s* 'riding (in a carriage)' (pres. *važiū'ju* 'I ride').

Partec. in *-ē-ta-s* and *-ū-ta-s* are often formed directly from nouns. *dūlkēta-s* 'dusty' from *dūlkės* pl. 'dust'. *skylēta-s* 'perforated' from *skylė* 'hole'. *kalnū-ta-s* 'mauntainous, full of mountains' from *kálna-s* 'mountain'. *gaurū-ta-s* 'with delicate hair' from *gaurai* pl. 'delicate hair'. *qsū-ta-s* 'with a handle' from *qsā* 'handle', *lūpūta-s* 'lipped' from *lūpa* 'lip'.

In Old Church Slavonic *-to-* was but little used as a participial suffix. It occurs regularly in forms from roots ending in a nasal, e. g. *žę-tū* 'hewn, mown': Lith. *giñ-ta-s* 'hunted, driven' (used of cattle), Skr. *hā-ta-s* etc., see p. 225 above; *pę-tū* 'stretched, hung': Lith. *pān-ta-s* 'twisted'; *ję-tū* 'taken':

¹) *Jis rādo svētimo būta* 'he found that there was a stranger' properly 'the existing of a stranger', with the same nominal construction as the passive participles have.

Lith. *im-ta-s* 'taken'. Besides these, it occurs in certain roots with *rĩ*, *i*, *ẽ* before the suffix, e. g. *pro-strĩtũ* 'outstretched': Skr. *st̥r-tā-s* etc., see p. 222 above; *vi-tũ* 'wounded': Lith. *vỹ-ta-s* 'twisted' (of cords); *pẽ-tũ* 'sung'. Elsewhere *-eno-* (*-no-*) was the usual form, see § 67 p. 151 and p. 154 f.

Partec. in *-a-tũ*, from nouns, are common. *bradatũ* 'bearded' from *brada* 'beard': Lat. *barbatu-s*, cp. also Lith. *barzdũta-s*. *rogatũ* 'horned' from *rogũ* 'horn': cp. Lith. *ragũtu-s*. *ženatũ* 'having a wife' from *žena* 'woman'. *mažata* 'maritata' from *mažĩ* 'man'.

-e-to- -o-to- in Balto-Slavonic. The former is sometimes found in Slavonic, as O.C.Sl. *trep-etũ* 'tremor' Little-Russ. *trep-eta* 'aspen'; O.C.Sl. *kreč-etũ* 'cicala'. *-o-to-*: Lith. *gyvatũ* 'life, livelihood'. O.C.Sl. *životũ* 'life, living being': Gr. *βίο-ρο-ς* etc., see p. 219 above; Lett. *luppata-s* 'patch, shred' (*lup-t* Lith. *lũp-ti* 'to pare, flay'); Lith. *sũkata* 'giddy sickness (of sheep)' *sũk-ti* 'to turn'), *adutũ* Lett. *addata* 'needle' (Lith. *ad-ỹti* 'to stitch'); O.C.Sl. *kłokotũ* 'bubbling' (subst.), *kłopotũ* 'noise' Pol. *kłopot* 'unrest', Czech *blekot* 'yelping' (subst.) (O.C.Sl. *blekotati* 'to bleat' Russ. *blekotat'* 'to stammer'), *dusot* 'roar', *sikot* 'hiss', *lukota* 'eager desire'.

In Adjectives it is common. Lith. *spĩsta-s* 'pressed, thick' (beside *spintũ spĩsti* 'to fly out in swarms', of bees): Lat. *spissu-s*. Lith. *skỹs-ta-s* 'with a thin stream', dialectically also 'pure, clear' of liquids, *skũis-ta-s* 'clear, shining', O.C.Sl. *čĩs-tũ* 'pure, holy', beside Lith. *skẽdžĩu* 'I part, separate, rarefy'. Lith. *geĩ-ta-s* O.C.Sl. *žlũ-tũ* (pr. slav. **gĩl-tũ*) 'yellowish'. Lith. *szũl-ta-s* 'cold': Avest. *sar'-ta-* 'cold'. *tvĩr-ta-s* 'firm'. *driũ-ta-s* 'firm, lasting', cp. no doubt O.H.G. *trũ-t* 'beloved, dear' and *trũn* 'to trust, believe'. *pĩk-ta-s* 'angry'. *bũl-ta-s* 'white'. *rũksz-ta-s* 'sour'. *kũrsz-ta-s* 'hot'. *ũuksz-ta-s* 'high'. O.C.Sl. *tlũs-tũ* 'fat'. *žestũ* *žestokũ* 'hard', no doubt orig. 'burnt', for **gek-s-to-* beside *žega* 'I burn' (cp. I § 545 p. 400). *is-tũ* 'certain, true'. *ljũ-tũ* 'violent, grim, terrible'. *čes-tũ* 'thick': Lith. part. *kĩmsz-ta-s* 'stuffed', (*kemszũ* 'I stuff'). *otũ-vrĩstũ* 'opened, open' (*otũ-vrĩzũ* 'I let loose, open'). *u-vẽz-tũ* 'wreathed, crowned' (*u-vẽzũ* 'I wreathe, crown').

In substantives. Lith. *pirsz-ta-s* O.C.Sl. *prīs-tū* 'finger' ground-form **pyk-to-s*, cp. no doubt Skr. *sprś-tā-s* 'touched'. Pruss. *gei-t-s* acc. *gei-ta-n* 'bread' O.C.Sl. *ži-to* 'fruit, corn', common ground-form **gei-to-*: A.S. *cī-ð* m. O.Sax. *kī-th* m. or n. Mid.H.G. *kī-t* n. 'offspring' pr. Germ. *kī-pa-*, $\sqrt{\text{}}gei-$ 'live, come to life'. Lith. *sē-ta-s* O.C.Sl. *si-to* 'sieve'. Lith. *var̃-tai* pl., O.C.Sl. *vra-ta* (pr. Slav. **vor-tā*) n. pl. 'door', beside Lith. *vēr-ti* O.C.Sl. *vrēti* 'to shut'. Lith. *gūsz-ta-s* *gūsz-tā* 'nest of fowls and geese': Skr. *gādhā-s* 'hidden', common ground-form **ghāgh + to-*, or the Skr. word may come from **ghuḡh + to-*. *tīl-ta-s* 'bridge'. *mīl-tai* pl. 'meal'. *tvār-ta-s* 'enclosure'. *smars-ta-s* 'stench' (*smard-*). *spar-ta-s* 'bond'. *žlauk-tai* pl. 'husks'. *lėp-ta-s* 'footway', *laip-ta-s* 'scaffolding, gangway'. *maisz-ta-s* *maisz-ta* 'uproar': Gr. *μῑx-ró-s* 'mixed'. *sósta-s* 'seat' beside *sēdmi*. *gel-tā* 'yellowness', beside *gel-ta-s* 'yellow'. *bank-tos* pl. fem. 'violence, tempest', beside *bank-ta-s* 'violent' (*hangā* 'wave'). *sru-tā* 'filthy liquid': Skr. *sru-tā-s* 'flowing'. *nasz-tā* 'burden'. *vasz-tā* 'cart'. *bras-tā*. 'wading through, ford' (*bredū*). O.C.Sl. *podū-jētū* 'grasp, support' beside partic. *jētū*. *lis-tū* 'leaf'. *otū-rētū* 'answer', cp. Pruss. *way-te* 'parley, conference'. *mos-tū* 'bridge'. *mlatū* 'hammer' (pr. Slav. **mol-tū*). *sū-vito* 'linen' beside partic. *vi-tū*. *jas-to* 'food': Lat. *ēsu-s* etc., see p. 230 f. *lē-to* 'summer, year' orig. 'rainy season', cp. Lith. *lė-tu-s* *ly-tū-s* 'rain'. *pa-to* 'fetter', beside the partic. *pē-tū*. *vrīsta* 'position, stage, age': Skr. *vyttā-m*, see p. 222 above. *krasta* (pr. Slav. **kors-tā*) 'itch, scab': Lith. *ka'sz-ta-s* 'combed, curried'. *pē-ta* 'heel'.

§ 80. 2. *-tā-* as a secondary suffix, forming abstract substantives¹).

The suffix *-tā-* which, as we have seen, formed primary abstract substantives in the protoethnic and later periods, as Avest. *cis-tā-* 'wisdom', Gr. *ἀρετ-τή* 'virtue', Lat. *multa* 'punishment', O.Ir. *ed-bart* f. 'oblatio', Goth. *skan-da* 'shame', Lith. *gel-ta* 'yellowness', O.C.Sl. *vrīs-ta* 'position, stage', (see § 79), had also begun to

1) G. Bühler, Das Griechische Secundärsuffix *της*, Göttingen 1858. H. Ebel, Die Masculina auf. *-της*, Kuhn's Ztschr. IV 155 ff. Brandstaeter, Die paronymis Graecis in *-της*, Danzig 1852.

be used in the proethnic period as a secondary suffix, and formed abstract substantives from substantives and adjectives alike. It seems to have been even then extended to *-tat-* *-tati-* (§ 102), and in some languages it was partly or wholly superseded by this suffix or by *-tūt(i)-* (see loc. cit.).

-tā- was fertile in Aryan, Greek, Germanic, and Slavonic.

Indo-Germanic. Lat. *juven-tā*, Goth. *junda* 'youth' pr. Germ. **juun-dō*, ground-form **juun-tā*, beside Skr. *yuvan-* 'young, young man' Lat. *juven-*; cp. **juun-ti-s*, § 101. Before *-tā-*, *o*-stems had either *-o-* or *-e-*; the difference was doubtless connected with a difference in accent (cp. especially Germ. *-ē-pō-* and *-e-dō-*). Skr. *pūrṇa-tā-* 'a being full, fullness', O.H.G. *fulli-da* O.Sax. *fulli-tha* O.C.Sl. *plūno-ta* 'fulness', beside Skr. *pūrṇá-s* Goth. *full-s* O.C.Sl. *plünū* 'full'; Skr. *ghōra-tā-* 'awfulness', Goth. *gauri-tha* 'trouble, beside *ghōrá-s* 'awful' *gaur-s* 'troubled'; Skr. *kṛṣṇa-tā-* O.C.Sl. *črīno-ta* 'blackness', beside *kṛṣṇá-s*, *črīnū* 'black'; Skr. *dīrgha-tā-* O.C.Sl. *dlūgo-ta* 'length', beside *dīrghá-s*, *dlūgū* 'long'.

Aryan. Skr. *dēvā-tā-* 'divinity' from *dēvā-s* 'god'. *nagnā-tā-* 'nakedness' from *nagnā-s* 'naked', cp. O.C.Sl. *nago-ta* 'nakedness'. *avīra-tā-* 'want of sons, or children' from *a-vīra-s* 'without sons, or children'. Avest. *yesnya-tā-* 'adorableness' from *yesnya-* 'adorable'. Skr. *bandhū-tā-* 'relationship' from *bāndhu-ś* 'relative, relationship'. *agō-tā* 'want of cattle' from *á-gō-* 'without cattle', cp. Gr. *πολύβοιτης* 'one rich in cattle'. *aprajās-tā-* 'want of offspring' from *á-pra-jas-* 'without offspring'.

Greek. Here these abstract substantives were used of persons (cp. Skr. *dēvā-tā-* 'divinity' then 'deity, god', O.C.Sl. *juno-ta* 'young man', orig. 'youthfulness'); and they were altered to look like masculines by a change of form in the nom. and gen. sing., just as *γενετή* became *γενετή-ς* (see § 79 p. 229 f.). It is now impossible to distinguish the forms in which this change first took place and which then served as models for the rest. The feminines in *-tā* in their abstract meaning fell out of use in prehistoric times, replaced no doubt by forms in *-tāt-*; compare e. g. *βαρύτης* *-της* 'weight' with Skr. *guru-tā-*

'weight', Goth. *kaúriþa* 'burden', βραδύ-της -τητος (also -της τῆτος) 'slowness' with Skr. *mydu-tā-* 'softness'. The following are examples of this change to the masculine gender: —

ἀγρό-της 'dweller in the country' from ἀγρός, δημό-της 'fellow domesman' from δημός, ἰππό-τα 'charioteer' (-τα is the vocative form, which was also used as nominative, see the Author Morph. Unt. II 199 f. Fleckeisen's Jahrbh. 1880 p. 660, G. Meyer Gr. Gr.² 318) from ἵππο-ς. οἰκέ-της 'member of one's household' from οἶκος, which served as the type for εἰνέ-της 'sharer of one's bed, husband', beside εὐνή and the like. πολυ-βού-της 'one rich in cattle' from βού-ς. ναύ-της 'sailor' from ναῦ-ς.

The primary and secondary formations had two points of contact. First, e. g. οἰκέ-της and γενέ-της had the same ending -έτης; and secondly certain of them could be regarded equally well as denominative or as participial formations, e. g. κορυς-τής 'helmed, armed man, warrior' κεράς-της 'horned creature, ram' αἰχμη-τής 'javelin-thrower'.

Italic. Examples are rare. *juven-ta* (see above, p. 239) and its opposite *senec-ta*, *Mājes-ta* Vulcan's consort. It is clear that *-tat(i)-* and *-tāt(i)-* have spread at the expense of *-tā-*.

Latin perhaps, as well as Greek, may have had masculines in *-tā-*: *eques equitis* like *ἰππό-τα* and the like. See on this point § 123 Rem. 1.

Germanic. All the forms excepting Goth. *jun-da* (see above, p. 239) had *-iþō-* or *-idō-*. (the latter is rare, e. g. Goth. *áupida* 'wilderness' from *áup-s* 'waste, desolate'). *-i-* represents the Idg. *-e-* of the *o*-stems; but here and there Idg. *-i-* may have been the original sound, as in O.H.G. *gi-meini-da* 'community' beside Goth. *ga-māini-* 'common, communis'. Even in protoethnic Germanic *-iþō-* (*-idō-*) was transferred to other classes of stems, e. g. to those in *-u-*; the word *jun-da* escaped this change merely because the stem from which it was derived (= Skr. *yávan-*) had fallen out of independent use.

These abstract substantives were far more frequently derived from adjectives than from substantives.

Goth. *vargiþa* 'damnation' from **varga-* m. O.H.G. *uarg* m. 'outlawed criminal, banished evildoer'. Goth. *veitvōdiþa* 'evidence' from *veitvōþ-s* 'witness'. A.S. *ðýfd* O.Icel. *þýfd* 'theft' from *ðeóf þjōf-r* 'thief'. Goth. *háuhiþa* O.H.G. *hōhida* 'height' from *háuþ-s* *hōh* 'high'. O.H.G. *heilida* O.Icel. *heild* 'health' from O.H.G. *heil* O.Icel. *heill* 'healthy'. Goth. *niujiþa* 'newness' from *niuji-s* 'new'. *fairniþa* 'age' from *fairnei-s* 'old'. *tulgiþa* 'safety, fortification', from *tulgu-s* 'firm'.

In West-Germanic and Norse *-iþō-* was associated with the verbs in *-jan*, since verbs of this kind were often connected with the nouns from which the *-iþō-* forms were derived and *-i-* was a characteristic mark of their conjugation, cp. e. g. O.H.G. *hōhida* beside *hōhen* (Goth. *hauhjan*) 'to exalt'. Hence arose analogical primary formations, which were most common in High German, as O.H.G. *gi-hōrida* 'hearing' formed from *gi-hōren* (Goth. *ga-hausjan*) 'to hear', *ir-lōsida* 'release' (subst.) from *ir-lōsen* (Goth. *us-lausjan*) 'to release'. Later on these were formed from other verbs than those in *-jan*; as O.H.G. *far-manida* 'contempt' from *far-manōn*, *gi-habida* 'bearing, behaviour' from *gi-habēn*, *ant-findida* 'feeling' from *ant-findan*.

Balto-Slavonic.

In Lithuanian *-tā-* is quite rare in this use, e. g. *sveika-tā* 'health' from *sveika-s* 'healthy'. Possibly *-tā* was not pure Lithuanian, but borrowed from Slavonic; cp. *nogatū* (*nāgatā*) 'nakedness' from Pol. *nagota*, *siratū* 'orphan' from Pol. *sierota* Little-Russ. *syrota*.

Old Church Slavonic. *rabota* 'servitude' from *rabū* 'servant', *gnusota* 'dirtiness' from *gnusū* 'dirt', *sramota* 'shame' from *sramū* 'shame'. *dobrota* 'goodness' from *dobrū* 'good', *pīstrotā* 'motley colouring' from *pīstrū* 'motley', *bēlotā* 'whiteness' from *bēlū* 'white', *žestota* 'hardness' from *žestū* 'hard'. Some have become 'concrete: *sirota* f. 'orphan', orig. 'bereavement', from *sirū* 'bereaved, orbus' and *junota* m. 'young man', orig. 'youth' from *junū* 'young'. Cp. above, p. 239, Gr. ἀγρό-της etc., and § 157.

§ 81. 3. -to- as a Suffix of Comparison. This class includes the -to- of the ordinal numerals, and the superlative -is-to- which is an extension of the primary comparative-suffix -ies- (§ 135).

An extension of -to- by -mo- forms the superlative-suffix -tymo-, which was discussed in § 73 p. 177 ff.

Indo-Germanic. The numerals in this period had sometimes -mo- (§ 72, 2 p. 166 ff.), sometimes -to-, sometimes perhaps both forms, e. g. **dekymmo-* and **dekymto-* 'tenth'. The latter form was the original of Gr. *deka-ro-s*, Goth. *taihun-da*, Lith. *dėszim-ta-s* O.C.Sl. *děsz-tū*. Skr. *cathur-thā-s*, Gr. *tétrag-ro-s* *tétrag-ro-s*, Lat. *quar-tu-s* for **ctoar-to-s*, O.H.G. *fior-do* (*n*-stem), Lith. *ketviř-ta-s* O.C.Sl. *četrī-tū* 'fourth'. Skr. *ṣaṣ-thā-s*, Gr. *hex-ro-s*, Lat. *sex-tu-s*, Goth. *saihs-ta* (*n*-stem), Lith. *szėsz-ta-s* O.C.Sl. *šes-tū* 'sixth', cp. I § 589 Rem. 2 p. 446. Gr. *εἰκοσ-ρό-ς* Boeot. *fixar-ro-s* 'twentieth' contrasted with Avest. *rišas-tema-* Lat. *vicinissimū-s*, see above, p. 177.

Remark 1. **dekā* 'ten' has the parallel form **dekmt* (Skr. *daśāt-ī* 'decade', Goth. *taihun*, Lith. *dėszimt*, pl. *dėszimt-s*, O.C.Sl. pl. *děszet-e*, see I § 244 p. 292, § 664, 2 p. 522, II § 123); this naturally suggests the comparison, **dekmt-to-s*: **dekmt* = **dekymmo-s*: *dekā*. Cp. p. 167 Rem. And it can hardly be denied that this -to- and the -to- of the cardinal numeral **hmtā-s* 'hundred' (Skr. *śatā-m* etc.) are identical. I should have more confidence in suggesting this view of **dekymto-*, but that the -to- of the ordinal numerals may also be the participial suffix; the tenth might be, so to speak, the be-ten-ed (cp. Skr. *an-ap-ta-* etc. p. 224), i. e. 'he to whom the number ten has been assigned in an enumeration'.

With the numerals proper is connected Skr. *kati-thā-s* 'which (in a series)?' beside *kāti* Avest. *caiti* 'how many?', Lat. *cotti-diē* for **cotti(ū)-tēj-* (loc.) 'on a day of whatsoever number, on which day soever, every day beside *quo-t* for **quo-ti* (I § 655, 1 p. 501). Cp. I § 501 Rem. 2 p. 368 § 633 p. 474. It is formed in the same way as Skr. *rišati-tamā-s* 'twentieth'.

-is-to-, in the protoethnic language, was the usual superlative ending where the comparative was formed in -ie-. **laghisto-s*: Skr. *lāghisṭha-s* 'nimblest, smallest', Gr. *λαγίσταρος* 'smallest'. Skr. *sād-āśha-s* Gr. *ῥαίσταρος* Goth. *sut-ist-s* 'suavissimus'. **plūisto-s* 'plurimus' i. e. **plē-isto-*: Gr. *πλείσταρος*; as regards Avest. *frašta-*

O.Icel. *flestr* see p. 244. 247 f. The root-syllable had originally the weak form of Ablaut, and -to- was accented; this is shewn on the one hand by Gr. *κράτ-ιστο-ς* beside *κρείσσων* *κρείσσαν*, *ὀλγ-ιστο-ς* beside *ὀλείζων* and the like, on the other hand by Skr. *jyēṣṭhā-s* *kaniṣṭhā-s* and O.Fries. *lērest*, with *r* for pr. Germ. *z*, beside *lēssa* and the like (see Kluge, Paul-Braune's Beitr. VIII 519 ff., Wheeler, Der griech. Nominalacc. 40 f.); cp. also the accentuation of -to- in numerals like Skr. *catur-thā-s* Gr. *εἰκοσ-τό-ς* O.H.G. *sibun-to* (pr. Germ. *-dō). In the separate branches of language, both the vocalism and the accentuation of these superlatives were influenced more or less strongly by the comparative forms, themselves at the same time reacting upon the latter.

The new suffix -isto- was primary to start with, like the comparative -ies-. But in all the different branches in which it was fertile, i. e. in Aryan, Greek and Germanic, it was very soon used along with -ies- as a denominative (cp. § 58 p. 106 f.).

Aryan. In Sanskrit we find -tha- and -ta-, and (always with the aspirate) -iṣṭha-. In Avest. -tha- is represented by *pux-ḍa-* 'fifth' (cp. Skr. *pañca-thā-*) and *hapta-pa-* 'seventh' (Skr. *saptā-tha-*). -tha- therefore certainly dates from proethnic Aryan. Cp. I § 475 p. 350 f.

Remark 2. I cannot follow those who would infer from this another proethnic suffix -tho-, so long as no undoubted example of the aspirate has been found in the European branch. Whence comes the aspirate in Gr. *λοῖσθο-ς* 'last'? — The question of the Indo-Germanic Tenues Aspiratae is not decided even by Moulton's essay, ingenious as it is, in the American Journal of Philology VIII 207 ff., since he is only concerned with the evidence in Greek. What, for instance, do we gain by deriving Gr. *τέταρτο-ς* from **τεταρ-θό-ς* and thus reconciling it with Skr. *catur-thā-s*, if all the while Lat. *quar-tu-s* is left out of consideration? (Moulton p. 208.) Why is not the Latin word **quarbus*, with *b* for pr. Ital. *p*?

-ta- occurs e. g. in Skr. *tr-t-īya-* Avest. *pri-t-ya-* O.Pers. *ši-t-īya-* 'third'; beside which we have also Skr. *tri-tā-s* (on which *tr-t-īya-* is based), the name of a divinity to which another, *dvitā-s*, was created as a contrast (cp. the Italic forms), Skr. *ṣaṣ-tā-* 'sixtieth', *sapta-tā-* 'seventieth' and the like; cp. also Skr. *pañcāt-* f. 'a group of five' *daśāt-* f. 'a group of ten'.

With Skr. *kati-thā-* (see above, p. 242) are connected *lapathita-* 'such and such a one (in a series)' *bahutithā-* 'manifold'.

-isto-. Skr. *māh-iṣṭha-* Avest. *maz-ista-* 'greatest': Gr. *μέγ-ιστος*. Skr. *dh-iṣṭha-* Avest. *as-ista-* 'quickest': Gr. *ῥᾶ-ιστος*. O.Pern. *map-ista-* 'greatest', beside Avest. *mas-yah-* 'greater': Gr. *μέγ-ιστος* 'longest, greatest'. Skr. *vās-iṣṭha-* Avest. *vah-ista-* 'best'. Skr. *yāv-iṣṭha-* 'youngest', compar. *yāv-īyas-*, pos. *yūvan-gar-iṣṭha-* 'heaviest', compar. *gār-īyas-*, pos. *gurū-*. *sthēṣṭha-* 'most constant', beside *sthi-rā-* (O.H.G. *stara-blind* 'stone-blind'), for pr. Ar. **sthaiṣhta-* Idg. **sta-is-to-* (just as the optative stem Skr. *ath-* is for **sta-i-*, see I § 116 p. 108); similarly *sphēṣṭha* 'richest, fittest' beside *sphi-rā-* (O.C.Sl. *sporū* 'rich'), for **spō-isto-*; the *h* spread to the comparative, and *sthēyas-* and *sphēyas-* took the place of **sthā-yas-* and **sphā-yas-* (we can hardly assume a form **sthā-īyas-* or **sthā-īyas-*). On the other hand the analogy of *śrē-yas-* and *prē-yas-* gave rise to the superlative forms *śrēṣṭha-* 'fairest' *prēṣṭha-* 'dearest' (which Avest. *sraešta-* shows to be as old as protoethnic Aryan): in the Veda occur the regular *śray-iṣṭha-* or *śriy-iṣṭha-* (pos. *śri-rā-* Avest. *sri-ra-*) and *pray-iṣṭha-* or *priy-iṣṭha-* (pos. *priy-ā-*).¹⁾ It is also possible that Skr. *jyēṣṭha-* 'mightiest' (comp. *jyā-yas-*) and Avest. *fraešta-* 'plurimus' (comp. *fra-yah-* Skr. *prā-yas-*) was formed on the analogy of *sthēṣṭha-*; for the Gr. *μῆν-ιστος* points to an Idg. **mēn-isto-*, and the character of these stems, as we know it, in other words, justifies us in restoring this form.²⁾ It cannot be shown that pr. Ar. *de* (**daiṣṭha-* **daiṣṭha-*) became *de* by any regular phonetic change. The words *dāyish-* 'most generous' and *yāyish-* 'wealthiest', to be read in Veda as trisyllables, I should perhaps regard as written for *dāyashcha* *yāyashcha* (or perhaps *dāyashcha* *yāyashcha*, the original *ā* being replaced by *i*), cp. *dāyashcha*.

¹⁾ One of the two forms must be inferred for metrical reasons. In the passages of the Rigveda which contain both the forms of the above languages, *śrēṣṭha-* and *prēṣṭha-* are the traditional readings.

²⁾ *de* instead of *de* takes a different view. Paul-Bruckner's *Beitr. Ind. u. Eur.* he suggests an Idg. **daiṣṭha-* or **daiṣṭha-*. On which, that are known, p. 101 f.

A few noun stems form superlatives in the same way, with *-iṣṭha-* in place of *-tama-*. Skr. *brāhm-iṣṭha-* 'a Brahman in the highest degree' from *brāh-man-* (similarly compar. *brāhm-īyas-*). *drādh-iṣṭha-* 'firmest' (instead of *dārhiṣṭha-*) from *dr̥dhā-* ground-form **dhr̥gh+to-* (similarly compar. *drādh-īyas-*); this formation was modelled on such forms as *kraśiṣṭha-*: *kṛśā-* 'lean', *bhraśiṣṭha-*: *bhṛśa-* 'strong, violent'.

Greek. *ἔνα-το-ς* 'ninth' for **ἐνφα-το-ς*: Goth. *niun-da*, Lith. *deviñ-ta-s* O.C.Sl. *devę-tŭ-* (cp. I § 152 p. 138). The analogy of *εἰκοσ-τό-ς* 'twentieth', *τριᾶκοσ-τό-ς* 'thirtieth' gave rise to such forms as *ἐκατοστό-ς* 'hundredth', *διᾶκοσιοστό-ς* 'two-hundredth', *χίλιοστό-ς* 'thousandth'; and also, *πόστο-ς* 'which (in a series)?', *πολλοστό-ς* 'one of many, multesimus' *ὀλιγοστό-ς* 'one of few'.

The *-ατο-ς* of *ἔνα-το-ς* *δέκατο-ς* spread considerably by analogy: **πρωτ-ατο-ς* (Att. etc. *πρωτο-ς* Dor. *πρᾶτο-ς*) 'first' instead of **πρω-φο-ς* (I § 306 p. 242 II § 64 p. 134), *τρίτ-ατο-ς* 'third', *ἑβδόμ-ατο-ς* 'seventh', *ὀγδό-ατο-ς* 'eighth'; *ὑπ-ατο-ς* 'uppermost', *ἔσχ-ατο-ς* 'outermost', *μέσσο-ατο-ς* 'midmost', *νέ-ατο-ς* 'novissimus'; *βέλτ-ατο-ς* 'best' (for its etymology see Wackernagel Kuhn's *Ztschr.* XXX 301 f.), *γέρετ-ατο-ς* 'most eminent'. The *-τατο-ς* of *τρίτατο-ς* *βέλτατο-ς* etc. was regarded as a simple suffix and taken into general use as the common superlative suffix for stems whose comparative was formed in *-τερο-* (cp. § 75 p. 193); e. g. *ὠμό-τατο-ς*, *σοφώ-τατο-ς*, *παλαι-τατο-ς*, *εὐδαιμον-έστατο-ς*, *κύν-τατο-ς*. A further accumulation of superlative elements is seen e. g. in *ἔσχ-ατώ-τατο-ς*, *κυντότατο-ς*, which looks like an attempt at **κυν-τατώ-τατο-ς* (cp. *κυν-τερώ-τερο-ς*) *καλλ-ιστό-τατο-ς*, *ἐγγ-ιστό-τατα*, and conversely *πρώτ-ιστο-ς*. Cp. Ascoli Curtius' *Stud.* IX 339 ff.

Remark 3. Bezenberger (*Beitr.* V 94 ff.) attempts a different explanation of *-τατο-*; but I am convinced that it is untenable (see *Morph. Unt.* III 68 f.).

-ιστο-. *ὠκ-ιστο-ς* 'quickest': Skr. *ás-iṣṭha-s*. *βάρεδ-ιστο-ς* *βράδ-ιστο-ς* 'slowest': Skr. *mrad-iṣṭha-s* (a later formation for **mṛd-iṣṭha-s*). *τάχ-ιστο-ς* 'quickest'. *μάλ-ιστα* 'most' (adv.) *πλεῖστο-ς*

ground-form **plē-isto-s*; see pp. 242, 244 above. Later on, analogical formations were made from noun stems: *κάλλ-ιστο-ς* 'fairest' from *τὸ κάλλος*, *ἄλπν-ιστο-ς* 'loveliest, most agreeable' beside *ἐπ-αλπνο-ς*, *τέρπν-ιστο-ς* 'most delightful' from *τέρπν-ός-ς*, *πρεῖσθ-ιστο-ς* 'oldest, most honourable' from *πρεῖσθ-ς*. Here *-ιστο-* took the place of *-τατο-*, as was also the case in *ἐγγ-ιστα* beside *ἐγγ-έ-τατα* 'nearest', *πόρσ-ιστα* beside *πορρω-τάτω* *πορσώ-τατα* 'furthest forward'.

Italic. Lat. *sex-tu-s*, Umbr. *sestentasiaru sextentariarum* Osc. *Σέσσες* 'sextius': Skr. *śaś-thū-s* etc., see p. 242 above. Lat. *quīntu-s* *Quīnctiū-s*, Osc. *Πομπτιες* 'Quinctius': Avest. *puṣ-da-* (the *u* is remarkable), Gr. *πέμπ-το-ς* Goth. *fimfta-* (in our records found only in composition), Lith. *peñk-ta-s* O.C.Sl. *pe-tŭ*. Lat. *ter-tiū-s*, Umbr. *tertiām-a* 'ad tertiam', by the side of which stands Lat. *trit-avo-s* (if this and not *strit-avo-s* was the true form of the word), for the first part of which either **trito-s* or **tritio-s* may be assumed as the earliest form (see § 34 p. 59): Skr. *tri-tā-s* *trt-īya-s* (p. 243), Gr. *τρι-το-ς* Lesb. *τέρ-το-ς*, Goth. *pri-dja* Lith. *trėczia-s* O.C.Sl. *tretŭjŭ*. In any case the forms **ter-to-* **tr-to-*, which are connected by ablaut are older than **tr-i-to-*, which was derived directly from the cardinal (*tr-i-tr-ei-*), though there would be nothing in the least irregular in its formation, if the *-to-* of the ordinals is really the participial suffix, as was suggested in Rem. 1 (p. 242). We have it extended by *-jo-* in *ter-tiū-s* etc. as in Skr. *dvī-t-īya-* 'second' and *tūr-ya-* *tur-īya-* 'fourth' (§ 63 p. 133). Side by side with *cottī-diē* (see above, p. 242), we have *quo-tu-s* *to-tu-s* *quo-tumu-s* (§ 73 p. 178). In Latin the superlative suffix *-isto-* gave place to the new formation *-issimo-*; contrast e. g. *ōc-issimū-s* (comp. *ōc-iōr*) with Skr. *āś-iṣṭha-* (*āś-īyas-*) (Gr. *ᾠκ-ιστο-ς* (*ᾠκ-ίων*)). It is not clear in what way this substitution took place, see § 73 Rem. p. 179.

Remark 4. It must be left an open question whether *-isto-* is still preserved in proper names, whether e. g. *Nostiū-s* stands for **Novist-iū-s* and is to be compared with Skr. *nār-iṣṭha-s*, as Pauli (Altital. Stud. II 140 f.) assumes.

Old Irish. *cōiced* O.Cymr. *pimphet* 'fifth': cp. Skr. *pañca-thā-s*. Similarly *sessel* Mod.Cymr. *chweched* 'sixth'; as to the cause of this new formation see Zimmer, Kuhn's Ztschr. XXX 214. We frequently find the termination *-mad*, which arose from an extension of older forms in *-mmo-*; as *sechtmad* Mod.-Cymr. *seithuet* 'seventh' (cp. Lat. *septimu-s*), *dechmad* Mod.Cymr. *decuet* 'tenth' (cp. Lat. *decimu-s*), *cētmad* Bret. *kandved* 'hundredth', see § 72, 2 p. 168. In protoethnic Celtic *-eto-s* was the termination of all these words, and the difference of vocalism between O.Ir. *cōiced* (with *e*) and **sechtmad* (with *a*) depends upon the kind of sound in the preceding syllable: *sechtmad* is due to the older form **sechtamet(os)*. *tress-* 'third' in comp. no doubt stands for **tris-to-*, i. e. **tris* (= Skr. *trī-ś* Gr. *τρι-ς*) + *-to-* (beside it in Mod.Cymr. we find the form *trydydd* from **tri-tiō-s*) cp. Lat. *trīnī* for **tris-no-* § 66 p. 146 and O.H.G. *dris-ki* 'ternus' *zweis-ki* 'twofold'.

-isto- in Keltic gave place to *-mo-* (*-is-mmo*), see § 72, 2 p. 169, cp. e. g. O.Ir. *lugem* 'smallest' (compar. *laigin*) as contrasted with Skr. *lāgh-iṣṭha-s* Gr. *ἐλάχιστο-ς*.

Germanic. The numerals passed into the *n*-declension. Goth. *saihsa* O.H.G. *sehto* O.Icel. *sette sētti* 'sixth': Skr. *ṣaṣ-thā-* etc., see p. 242 above. Goth. *niunda* O.H.G. *niunto* O.Icel. *nūnde niundi* 'ninth', pr. Germ. **niyun-dā-n-* (I § 179 p. 156): cp. Gr. *ἐναυτο-ς*. In Goth. *ahtu-da* O.H.G. *ahtodo* 'eighth', we have a formation peculiar to Germanic, cp. Gr. *ὀγδο(ς)ή-χорта* Vulgar Lat. *octuā-ginta*.

-isto-. In the oldest West-Germanic the inflexion of the superlative was almost exclusively weak (*n*-declension); in Gothic and Norse it was both strong and weak. Goth. *sut-ist-s* O.H.G. *suaz-isto* 'sweetest': Skr. *svād-iṣṭha-*. Goth. *hauh-ist-s* O.H.G. *hōh-isto* 'highest'. Goth. *māist-s* O.H.G. *meisto* 'most' (compar. *māiza mēro*), cp. Umbr. *mestru* fem. 'maior', common ground-form **ma-isto-* beside the pos. O.Ir. *mā-r* Goth. *-mēr-s* 'great'. The O.Icel. *flest-r* 'plurimus', together with the compar. *fleire*, which cannot be referred to **plēis-* (Osthoff, Paul-Braune's Beitr. XIII 444), I suppose to have been altered on the analogy of

mest-r meire; cp. pp. 242 f. 244 and § 135. We often find new formations from noun-stems: Goth. **jūh-ist-s* (inferred from *jūhiza*) O.H.G. *jung-isto* O.Icel. *ōrat-r* (for **ōst-r*, *r* being inserted from the compar. *ōre*) and *yingst-r* 'youngest', from Goth. *jugg-s* etc. = pr. Germ. **iunus-gá-s* Skr. *yuva-śá-s*; this new form took the place of another which answered to the Skr. *yáv-iṣṭha-s*; this must have been before Verner's law came into operation, as the word has *-h-* instead of *-g-*, which shews that in the noun from which it was formed (**iunǵá-*) the breathed spirant had not yet become voiced (I § 530 p. 386 f.). Goth. **alp-ist-s* (inferred from *alpiza*) O.H.G. *altisto* 'oldest' beside Goth. *al-pei-s* O.H.G. *al-t* 'old'. Accumulated endings of comparison are seen in e. g. Goth. *af-tum-ist-s* A.S. *aef-tem-est* 'hindmost, last' beside Goth. *af-tuma*, O.H.G. *af-tr-isto* 'last' beside *af-tro- af-tero*.

Since *-ista-* and *-iz-en-* became denominative so early in proethnic Germanic, it is not surprising that before that period ended they were added to *ō-*, the adverbial termination of the *o*-stems, just as was the Gr. *-taro- -teto-* in *σπου-τερο-ς ἀνω-τερο* etc. (§ 75). Thus arose forms like Goth. *sniumundōs* 'more hastily', from *sniumundō* 'hastily', *frōdōza* 'more shrewd' *frōdōst-s* 'most shrewd', from *frōþ-s* 'prudent', O.H.G. *blintōro blintōst* from *blint* 'blind' (*aftr-ōsto* beside *aftr-isto* (see above) and the like), O.Icel. *spakare spakast-r* from *spak-r* 'intelligent'. In Gothic this formation was always strictly confined to *o*-stems; in Old High German was occasionally extended to other adjectival stems. Pr. Germ. *-ō-izō- -ō-ista-z* became *-ōzō. -ōsta-z*, cp. I § 142 p. 127. Slavonic has a similar group of comparatives, the forms in *-ě-ŕ*; see § 135.

Remark 5. This explanation of the comparative suffix in Germanic has not been universally accepted. (Johansson, *De derivatis contractis*, p. 182). But it is certainly not disproved by the forms *máizo áir-s* (for **máiz- ájro-*). It is quite possible that *áj* had here become *ái* (see I § 614 p. 464) before this new method of forming comparatives had been adopted in proethnic Germanic. Each period has its own phonetic laws.

Balto-Slavonic. Lith. *desziū-ta-s* O.C.Sl. *desę-tŭ* 'tenth': Gr. *δέκα-ρο-ς* etc., see above, p. 242.

-isto- in Lithuanian gave place to *-idus-ia-* which (in spite of

J. Schmidt's objections, Kuhn's Ztschr. XXVI 378) is no doubt connected with Slav. *-uchŭ -iuchŭ* (Miklosich Vergl. Gramm. II 289 ff.); whilst in Slavonic the comparative displaced the superlative formation.

§ 82. 4. The Suffixes *-my-to-*, *-uy-to-*¹⁾.

In protoethnic Indo-Germanic there were a certain number of formations in *-to-* which were extensions of stems in *-men-* and *-yen-*. **kley-my-to-*: Skr. *śrō-mata-m* 'renown' O.H.G. *hliumunt* m. 'report, reputation' beside Avest. *srao-man-* n. (Goth. *hliu-ma* m. 'hearing', ✓ *kley-* 'to hear'. Gr. *ὀνόματα* pl. 'names' Lat. *cōgnō-mentu-m*, beside Skr. *nā-man-* n. 'name' Lat. *nō-men* n. etc. Gr. *κασσιματα* pl. 'something stitched together, soles; contrivances, plots' (prep. *κάτ*), Lat. *as-sū-mentu-m* 'patch put on', Skr. beside *syā-man-* n. 'band, strip, row', Gr. *ὀμὴν -έρ-ος*; 'skin, sinew'. **per-uy-to-*: Skr. *pār-vata-s* 'mountain, rock' Gr. *πεῖρατα* Lesb. *πέρρατα* pl. 'extremes, boundaries', for **περ-φατα* (I § 166 p. 146 f.), beside Skr. *pār-va-* n. 'knot, joint, break, section' Gr. *ἀ-πείρων* 'boundless' for **ἀ-περ-φον*.

Probably this use of *-to-* is to be connected with that discussed p. 224, where we saw that the participial *-to-* could be added directly to noun-stems. From **kley-men-* was first formed **kley-my-tō-* (*hliumunt* indicates that *-to-* was accented) 'called, famed' (cp. Gr. *θάματα-τός* beside *θάμα*, orig. stem **θau-μεν-*); the neuter, used substantively, had the meaning 'a being called, renown', and then in High German the gender of the word was altered to match that of *ruof*, *ruom*. Gr. **ὄνομα-το-ν* orig. 'the being named, having a name'; Lat. *cōgnōmentu-m* 'the having a surname', beside *cōgnōminatu-s*, like *sceles-tu-s* beside *scelerātu-s*, *liber-tu-s* beside *liberātu-s*. Skr. *pār-vata-s* is easily explained as an epithet of *giri-ś* 'mountain'.

Remark. The following formations are akin to those just discussed: Skr. *śi-mān-ta-s* 'crown of the head, boundary' beside *śi-mān-* m. 'parting of the hair, crown of the head' f. 'boundary', Gr. *ἰ-μάρι-* (f) 'strap' beside *ἰ-μωρ-αῖ* 'rope of a draw-well' O.Sax. *si-mo* 'band, rope' (*i-mār-* instead of **i-mārro-* see p. 250 f.); Skr. *hē-man-tā-s* 'winter' beside *hē-man* loc. 'in

1) The Author, Morph. Unters. II 220 ff.

winter'; *āk-man-to-m* 'fire place' beside *āḥ-man-* m. 'stone'. In the first word the Idg. ending was perhaps *-mṇ-to-*, see I § 230 p. 196; the accent was shifted from *-to-* to *-mṇ-* doubtless through the influence of **si-mīn-*, the stem from which the word was formed, just as in Sanskrit the accent of **śrō-man-* n. changed **śrōmatā-m* to *śrōmatam*. On the other hand, *hemantā-s* and *ākmanā-m* may be later analogical forms dating from the period after the separation of the languages and based on the strong form of the parent stem, as in *vijān-tama-* and the like. Or has *hemantā-s* any immediate connexion with the Gr. *ἡμάντης* mentioned on p. 225?

In most languages these combined suffixes, even when they did not die out, survived only in a few old forms and were no longer in living use; in Germanic besides *hlumunt* the only other example is Goth. *snīu-mundō* 'hastily' (from **sney-men-* 'haste') which presupposes an adj. **snīu-munda-* cp. Gr. *θαιματός*. But in Italic *-mṇ-to-*, and in Greek *-mṇ-to-* and *-mṇ-to-* became exceedingly fertile.

Greek. Forms like *δρόματα* are: *εἶ-ματα* 'clothes' (cp. *εἰ-μαῶν* 'well clothed' Skr. *vās-man-* n. 'covering'), *δέρ-ματα* 'hides, skins', *ὄνο-δήματα* 'sandals', *μνή-ματα* 'memorials', *καλύμ-ματα* 'veils', *ροή-ματα* 'thoughts', *ὀρη-ματα* 'longings'. Like **περ-φατα* we have *εἶδαρα* 'food' in Hom., i. e. *ἐδ-φατα* or (with assimilation) *ἐδδαρα* (cp. I § 166 p. 147), *πηγάτα* *πηγάρα* 'wells' (for **πηγ-φατα*), *σεσάρα* 'lumps of fat' (for **στα-φατα*, \sqrt{sta} 'to stand'). Stems in *-men-* and *-uen-* were regularly extended in this way; and *-to-* also attached itself to neuter stems in *-en-*: e. g. *ἥπατα* 'livers' (Skr. *yakan-* Lat. *jecin-*), *ὄθ-ατα* 'udders' (Skr. *ūdh-an-*), *κεφατα* *κεφατα* 'heads' for **κεφασ-ατα* **κεφασ-ατα* (Skr. *śirṣ-an-*); to which *κεφνη* Lesb. *κεφνῆ* and *κεφνηο-ν* (for **κεφασ-ν-α* **κεφασ-ν-ο-*) are related in the same way as *κορνηο-ς* to *δρόματα*. The nom. and acc. sing., e. g. *δρόμα*, and the loc. pl., e. g. *δρόμασι*, must be forms of the original *n*-declension without *-to-*. But along with these there were in use such case-forms as *δρόμα-τα*, *δρόμα-των*, and *δρόμα-τος* (= Skr. adverbial ablative *nāma-tas*); and as though these were really to be divided *δρόματ-α* *δρόματ-ων* *δρόματ-ος*, a new form was made for the locative, *δρόματι*. Thus the *το*-stem passed over to the *τ*-declension. In the same way *ί-μαντ-* (see

p. 250 Rem.) was no doubt developed from *i-már-roç, cp. Skr. *sīma-tás*.

Italic. Lat. *testā-mentu-m*, Osc. *tristaamentud* abl. 'testamento'. In Latin we sometimes find only the original form in -men, as *agmen*, *crīmen*, *certāmen*; sometimes -mento- as well, e. g. *augmen* and *augmentu-m*, *suf-fīmentu-m*, *regimen* and *regimentu-m*, *fundāmen* and *fundamentu-m*; sometimes only -mento-, as *armentu-m*, *caementu-m*, *dēlectāmentu-m*, *argūmentu-m*, *vestīmentu-m*. Further, *unguen-tu-m* was formed from *unguen* as -mentu-m from -men-, just as in Greek ἡπ-ara arose on the model of ἀνό-ματα, *περ-fata- etc.

§ 83. The Suffix -ko- -kā-. This is shewn to be pre-ethnic by the word *juuy-kó-s or *juuy-kós 'youthful, young', beside Skr. *yuv-an-* Lat. *juv-en-* (for the initial sound see I § 117 p. 109 f. § 598 p. 452 f.): Skr. *yuva-śá-s*, Lat. *juven-cu-s*, O.Ir. *ḡac ḡu*, Goth. *jugg-s*¹). Compare also *lōpa-śá-s* 'fox, jackal', Armen. *aluēs* 'fox', Gr. ἀλώπη-ξ -ιx-ος and (in the Iambic writer Ananios) -ηx-ος 'fox', with -x- for -xo-, with the same change of inflexion as in μεῖρα-ξ: Skr. *marya-ká-s* etc. (§ 84. 129), beside Skr. *lōpā-ka-s* 'fox' (-ka- had originally a diminutive force), Gr. ἀλωπό-χρους 'fox-coloured' ἀλωπό-ς 'sly', Lith. *lāpė* 'fox'; in some of the languages, no doubt, the word may have been borrowed and naturalised, nor can we be certain that the suffix of Gr. ἀλώπηξ is not -go-, and so identical with the -ka- of Skr. *lōpā-ka-*.

Beyond these words a few examples from Aryan are all that can be ascribed with certainty to the suffix -ko-.

Aryan. In Skr. *arva-śá-s* *ārva-śa-s* 'hasty, travelling quickly' from *ārvan-* (same meaning); *ēta-śa-s* 'hasty', from *ēta-s* (the same); *babhru-śá-s* *babhlu-śá-s* 'brownish' from *babhrú-ś*

1) Here perhaps *ῥάx-ιvθo-* also should be classed (for the diminutive force of -vθo- see A. Dühring, Programm des Friedrichs-Collegiums, Königsberg 1885 p. 15). The youth Hyacinthus and his early death represent the life of the physical world, where maturity is at once followed by decay. If this etymology is correct, it proves the existence of an Indo-Germanic stem *juuen- with an initial j (not i), see I § 598 p. 452.

'brown'; *rōma-śā-s lōma-śā-s* 'hairy', from *rōman- lōman-* n. 'hair of the head'; *an̄ku-śā-s* 'hook' beside *an̄ku-rā-s* (p. 199).

Armenian. *aluēs* 'fox', see above.

Greek. *ἄλφις* 'fox', see above.

Italic. Lat. *iūven-cu-s*, Umbr. *ivengar* pl. 'iuvencae', see above.

Old Irish. *ōac ōc* 'young', Mod.Cymr. *ieuanc* O.Corn. *ieuene* Bret. *iaouank*, see above.

Germanic. Goth. *jugg-s* O.H.G. O.Sax. *jung* O.Icel. *ung-r* 'young', pr. Germ. **iunna-gā-s* (I § 179 p. 156), see above. For Goth. *jūhiza* O.Icel. *ōre* 'younger' see I § 530 p. 387, II § 81 p. 248.

Balto-Slavonic. We can scarcely place in this group Lith. *pālsza-s* 'tawny' O.C.Sl. *pelesū* 'dark grey' beside Lith. *pal-va-s* O.C.Sl. *pla-vū* 'tawny'. These forms no doubt arose (as we may infer from the Russ. *pelesyj* 'variegated' *polosa* 'stripe, streak') through a confusion of $\sqrt{\text{pel-}}$ with $\sqrt{\text{perk-}}$ (Gr. *πέλεκος* *πελεκρός*).

§ 84. The Suffixes -qo- -qā-, -iqo- -iqā-, -īqo- -īqā-, -ūqo- -ūqā-, and -aqo- -aqā-¹⁾.

The velar character of the *k*-sound in the suffixes which we are now to discuss appears regularly and unmistakeably in Aryan, Armenian and Balto-Slavonic (see I § 417 ff. p. 305 ff.). In Greek, Italic, Keltic and Germanic it can be identified with certainty only in the comparatively rare cases where we find the *k*-sound labialised (*ky*), as in Lat. *anti-quo-s*, Mod.Cymr. *hys-p* 'dry'. The remaining examples in this group of languages have only *k* without any following *u*; yet it is clear that these forms, except of course such as we have already seen reason

1) J. Budenz, Das Suffix *κό*: (*κό*, *κό*, *κό*) im Griechischen, Gött. 1858. C. von Paucker, Die [lat.] Deminutiva mit dem Suffix *-culus, a, um*, Ztschr. f. österr. Gymn. 1876 p. 595 ff. L. Meyer, Das Suffix *ka* im Gotischen, Kuhn's Ztschr. VI 1 ff. Id., Die deutsche Abstractbildung auf *ung*, Bezenb. Beitr. III 151 f. Fr. Kauffmann, Die innere Stammform der Adjectiva auf *-ko* im Germanischen, Paul-Braune's Beitr. XII 201 ff. A. Bezenberger, Die lett. Gradationsformen auf *-āks*, in his Beitr. V 97 ff.

to refer to the suffix *-ko-* (§ 83), did originally contain *q* not *k*, because a large number of them correspond exactly to forms in the Eastern group which vouch for *-go-*; thus examples like Lat. *mus-culu-s*: Skr. *muṣ-ká-* Armen. *muḵn* prove that the Latin diminutival suffix *-culo-* is derived from *-go-*. It must be confessed, however, that no real difference of meaning can be found between the suffixes *-ko-* and *-go-*, and it is therefore quite possible that amongst the examples of *-ko-* in the Western languages which are given in this section, there may be some few forms which are really derived from *-ko-*.

-go- is used both as a primary and as a denominative suffix. No general definition can be given of its original function in its primary use. In derivatives *-go-* and *-igo-* were used to form adjectives (and substantives based upon adjectives) meaning 'related, or belonging to' the thing or person denoted by the original word, which was generally either an adverb or some case of a noun. Further, *-go-* was added to substantives, without altering their substantival or adjectival character, but to give a slight modification of meaning; the derivative signified 'a thing tantamount to' or 'that which merely resembles' the original. Hence it was often used to form diminutives. This modification of meaning again, was often lost, so that the derivative was simply equivalent to the original word. As to the functions of *-igo-*, *-ūgo-* and *-ago-*, see below.

Analogical changes of many kinds, affecting the final sound of the stem to which *-go-* was added, arose even in protoethnic Indo-Germanic, and still more freely after the separation of the languages, but we can seldom trace the course of their development in early times. The facts are exceedingly confused, and the classification which follows must be regarded simply as an attempt to reduce them to some kind of order.

In Greek, Italic and Keltic *-go-* was often transferred to the consonantal declension, e. g. Gr. *μεῖρα-ξ*: Skr. *marya-ká-s*. Cp. Gr. *ἀλώπηξ* § 83 p. 251 and § 129.

§ 85. 1. -go- as an original primary suffix. On the whole it is not common.

Indo-Germanic. None of the forms to be mentioned here are found in more than a few languages. Skr. *dha-ká-s* 'receptacle', Gr. *ῥή-χη* 'receptacle', $\sqrt{dhē-}$ 'riθérαι'. Skr. *pīva-sphaká-s* 'swelling with fat', Lett. *spé-k-s* 'strength', (beside *spé-t* 'to be able'), $\sqrt{spē-}$ 'extend, become rich'. It is no doubt also primary in Lat. *siccu-s* O.Ir. *ses-c* 'unfruitful' Mod.Cymr. *hys-p* 'dry' pr. Kelt. **siskyo-s*, common ground-form **sit-go-s*, cp. Lat. *sit-i-s* (I § 419 p. 307).

Aryan. Skr. *śuś-ká- śuś-ka-* Avest. *huš-ka-* O.Pers. *uš-ka-* 'dry' $\sqrt{sau-}$ (I § 557, 4 p. 413). Skr. *át-ka-*. Avest. *a-pka-m*. 'garment, covering'. Skr. *stú-kā-* 'tress'. Avest. *sao-ke-m* 'advantage'.

Armenian. *bok* 'barefoot' ground-form **bhos-go-* (I § 561 p. 417), cp. O.H.G. *bar* 'naked, bare' O.C.Sl. *basŭ* 'barefoot'. Or is -go- here a secondary suffix?

Greek. *ῥή-χη* 'receptacle': Skr. *dha-ká-s*, see above.

Italic. Lat. *siccu-s*, see above. Beside it we have also *tesquo-s*, for **ters-quo-* (I § 269 p. 217), $\sqrt{ters-}$ 'to become dry, arid'. *cas-cu-s* beside *cānu-s* for **cas-no-s* (cp. Osc. *casnar* 'senex'); for the function of the suffix cp. *prīs-cu-s* § 88. A stem **fa-co-* is implied in *-fex* (*arti-fex* etc.), hence *fa-c-iō*. *fācundus* and *fēcundus* imply **fā-co-*, **fē-co-*, see § 69 p. 161. *tru-c-s* beside *truāre* is no doubt another example, see O. Ribbeck Archiv f. lat. Lexicogr. II 122 f.

Old Irish. *ses-c*, Mod.Cymr. *hys-p*, see above. *bris-c* Bret. *bres-k* 'brittle' no doubt from $\sqrt{bherdh-}$ (Gr. *πέρω*); the ground-form will then be **bhyrdh+go-*, see I § 298 p. 236. For Celt. -sk- coming from -tk- see I § 516 p. 376.

Germanic. O.Icel. *lōs-k-r* 'soft, lazy', pr. Germ. **lat-kya-z*, beside Goth. *lētan* 'to let, permit', *lat-s* 'lazy, idle', $\sqrt{lēd-}$ *lōd-*. O.H.G. *ras-c* and *ras-ch* 'quick, clever, strong' O.Icel. *rask-r* 'bold, brave', pr. Germ. **raskya-z* and **ruskya-z*, ground-form **rot-go-* and **rt-go-*, $\sqrt{ret-}$ (O.H.G. *rado* 'quickly' Goth. *raþ-s* 'easy'). O.H.G. A.S. *horse* 'quick, cutting, clever' O.Icel. *horsk-r*

'clever', Goth. *and-hruskáip* 'he investigates', ground-form probably **kylt-go-*, cp. Goth. *hard-u-s* 'hard' Gr. *κατ-ύ-ς* 'strong'; cp. also Mid.Eng. and Dan. *harsk* 'rough, hard' with another grade of vocalism. O.Icel. *beis-k-r* 'sharp', beside Goth. *bait-r-s* 'biting, bitter', \checkmark *bhejd-*. For *-sk-* from *-tk-* see I § 527 p. 383. Here should also be classed O.Icel. *prosk-r-* 'bold' *vusk-r-* 'bold' O.H.G. *frisc* 'brisk, lively, alert' and other similar words (Kluge Nom. Stamm. p. 89), though only, perhaps, as later formations with a suffix *-sk(u)o-* abstracted from the older forms with *sk* = *tk* (cp. p. 18 f.).

O.Icel. *lau-g* f. 'bath' from pr. Germ. **lau-ǵō-*, cp. O.Icel. *laud-r* 'soap' Lat. *lav-ere*.

Balto-Slavonic. Lith. *pil-ka-s* 'grey' beside *pelėti* 'to grow mouldy' *pelė* 'mouse', cp. also *pelėka-s* 'mouse-grey'. Lith. *plūs-k-i-s* 'one that has ruined himself, spendthrift'. Lett. *plūs-ka* slovenly vagabond, scamp' *plūs-kas* f. pl. 'sluice', beside Lith. *plūs-ti* 'to begin to swim, run over'. Lett. *rusch-ka* 'filthy fellow' *pe'lnu-ruschk-i-s* 'Cinderella'. properly 'ash-stirrer' (Lith. *pelen-rūsà* and *-rūs-i-s*), beside Lith. *rūsinti* 'to rummage, stir'. Lett. *lišchk-i-s* 'flatterer' properly 'licker' *kréma-laischk-i-s* 'cream-licker', a name of the fore-finger. Lett. *spé-k-s* 'strength': Skr. *pīva-sphaká-s*; see above, p. 254. O.C.Sl. *zna-kū* 'token'. *bra-kū* 'marriage, wedding', which we may perhaps derive from *bera* \checkmark *bher-*.

§ 86. 2. -go- as a secondary suffix forming adjectives (and substantives based upon adjectives) from adverbs and inflected nouns with the meaning 'related, or belonging to' what is denoted by the original word, where the nature of the relationship or connexion may vary very widely.

a. From Adverbs.

Indo-Germanic. Skr. *anti-ká-s* 'coming to an end with or at something, near' (*ánti* 'over against, in sight of, near'), Lat. *antī-quo-s* *antī-cu-s* 'preceding in space or time or order, more important, earlier, old' (*ante* for **anti*). Skr. *ánī-ka-m* 'that which is turned towards one, the side turned to one, front, face, point' Avest. *ainika-* m. 'front', Gr. *ἐνι-πή* 'attack,

rebuke' (Osthoff, Morph. Unt. IV 223). Skr. *nī-ca-* low, going downwards', Gr. *nī-xáw* ('bring low, fight down') 'conquer' (hence *nī-xῆ* with the meaning 'victory', like Lat. *pūgna* from *pūgnāre*, H.G. *handel* m. from *handeln*, *opfer* n. from *opfern*), Lith. denom. *ny-k-stù* 'I disappear, pass away' (*auksztỹ-naika* adv. 'backwards' and others, with non-original ablaut) O.C.Sl. *ni-cī* 'pronus' for **nī-k-jī*.

Aryan. Skr. *ucca-s* Avest. *uska-* adj. 'on high, high' Skr. *úka-s* 'longing for something' ground-form **ud + go- *ud + qe-*, beside Skr. *úd* 'up'. Skr. *ábhi-ka-s* *ábhi-ka-s* 'coming after a thing, lustful' beside *abhī abhī*. Skr. *ánu-ka-s* 'coming after a thing, desirous, dependent' *ánā-ka-m* 'backbone', beside *ánu*.

Such forms as these in *-īka-* *-ūka-* were in Sanskrit associated with compounds in *-y-añc-* *-v-añc-* (*-añc-* 'directed towards something', cp. § 163), and this led to a number of new formations. See Osthoff loc. cit. 249 ff.

Greek. *πέρι-ξ* adv. 'around', *περισσό-ς περιττό-ς* 'superfluous, extraordinary, superabundant' for **περι-κ-χο-ς*, beside *πέρι*. As in the case of the adverbs *μονάξ* and *ὀδᾶξ* from **μοννα-χο-*, **ὀδατ-χο-* (§ 88), a nom. in *-κ-ς* instead of *-χο-ς* was first formed, *πίριξ* instead of **περι-χο-ς* (cp. *μῆρα-ξ* § 84 p. 253, § 88 pp. 263, 265), and then on the analogy of adverbs like *παρ-εῖς* *ἐν-εῖς* *ἄψ* etc. it came to be regarded and used as an adverb.

From a stem **πρᾶ-χο-* (cp. *πέρᾱ* 'beyond' *πέρᾱ-ρ* 'on that side') arose *πράσσω*, the oldest meaning of which was 'press through, go through' (Hom. *ἄλλα πρήσσοντες*), see Leo Meyer, Kuhn's Ztschr. XXII 61 ff.

Italic. Lat. *reci-procu-s* orig. 'directed backwards and forwards' from **re-co-* and **pro-co-*, cp. O.C.Sl. *pro-kū*. *procul* is an extension of the stem **proco-* by *-lo-* cp. *simul*¹⁾.

Germanic. O.H.G. *abu-h* *aba-h* O.Sax. *abhu-h* 'turned away, perverse, wicked', (the neut. is used substantively, 'per-

1) Detailed arguments in support of this explanation of *reciprocus* and *procul* will be found in Rhein. Mus. XLIII 402 ff., where, unfortunately, I overlooked the fact that the same derivation had already been suggested by Corssen, Krit. Nachtr. 136 f.

verseness, wickedness') O.Icel. *qfu-g-r* 'turned away, perverse', beside *af* 'from, away': cp. O.C.Sl. *opako opaky opače* adv. retrorsum, contrarium' *pače* 'contra, potius' *paky* 'iterum' (*opače*: *pače* = Gr. *ἄνο* : O.H.G. *fo-na*, a regular example of proethnic ablaut); cp. also Skr. *ápaka-s* 'lying behind, remote', which need not necessarily be regarded as a compound of *-añc-* (cp. p. 256 under Aryan).

Balto-Slavonic. O.C.Sl. *pro-kū* 'remaining over', from *pro. prē-kū* 'transversus' for **per-kū*, from *prē*.

b. From Nouns. The terminations *-o-go-* *-e-go-* which arose when the suffix was added to *o*-stems were in Aryan and Slavonic also used as primary suffixes.

Indo-Germanic. Skr. *dvi-ka-* 'consisting of two' (beside this *dva-kā-* 'two by two, joined in pairs'), A.S. *twi-ȝ* O.H.G. *zwei-g* and *zwei* gen. *zweies*, pr. Germ. **tvi-ȝuá-* 'twig' (cp. O.C.Sl. *roz-ga* 'twig' from *rozū razū* 'dis-'), O.H.G. *zweho zweiſo* 'doubt', pr. Germ. **tvi-ȝuo-n-* **tvi-ȝuo-n-* (I § 444 p. 329); to which no doubt we should refer Gr. *διπλό-ς διπρό-ς* 'twofold', for **dfi-x-ɥo-ς*. Similarly Skr. *tri-kā-* 'three by three, threefold' and Gr. *τριπλό-ς τριπρό-ς* 'threefold'. The Ion. *διξό-ς τριξό-ς* are perhaps to be explained as standing for **dfi-x-ɥo-ς* **tri-x-ɥo-ς*. Lat. *uni-cu-s*, Goth. *aina-h-s* O.H.G. *eina-g* 'single', O.C.Sl. *ino-kū* 'solus'.

Aryan. Skr. *sūci-ka-s* adj., 'stinging', subst. 'stinging vermin', from *sūci-* f. 'needle', *anta-ka-s* 'making an end, he that makes an end', from *án-ta-s* 'end'. *urvāru-kā-m* 'that which belongs to the gourd-plant (*urvāru-ṣ*), or comes from it, fruit of the gourd'. *sindhu-ka-s* 'coming from the Indus (*sindhu-ṣ*)'. *rūpa-ka-s* 'in (an assumed) form', from *rūpā-m* 'form'. Avest. *kasvi-ka-* 'rather small, rather poor', from *kasvi-ṣ* 'smallness, dwarfish stature'. Skr. *māma-ka-s* 'my', *asmāka-s* Avest. *ahmāka-* 'our' (is the termination of this word Idg. *-o-go-* or the suffix *-āgo-?*). Hence Ar. *-ka-*, so frequent in Sanskrit in adjectival (epithetised) compounds as Skr. *vigata-śrī-ka-s* 'whose beauty is past' (cp. Avest. *dūrae-srī-ka-* 'beautiful at a distance') *a-bhrātṛ-ka-s* 'brotherless', *a-rētās-ka-s* 'without seed', *sa-patnī-ka-s* 'with one's wife'; cp. also Avest. *hu-mayā-ka-* 'possessing good wisdom'

(*hu-maya-*). These compounds however may also be classed under § 88 p. 264.

From *ánta-ka-s* and similar forms arose a primary suffix *-aka-*, as Skr. *sáyaka-s* 'meant for throwing' neut. 'missile', *náyaka-s* 'guide', *pácaka-s* 'cooking, cook', *pychaka-s* 'who asks'. Cp. Slav. *-okŭ*, p. 260.

To these no doubt should be added *partaka-s vártika* 'quail': Gr. *ὄρνις* (gen. *ὄρνικος* and *ὄρνυγος*, cp. Osthoff, Zur Gesch. d. Perf. 620) 'quail', with *v* on the analogy of *κόκκυς*, *ἵβυς* and the like.

Greek. *δι-σός-ς τρι-σός-ς* p. 257 above. *Λιβυ-κός* 'Libyan', from *Λιβυ-ς*; *θηλυ-κός* 'feminine', from *θηλυ-ς*, as the opposite of *αρσεν-ικός-ς*; in *αλυκός* adj. 'salt' from *ἄλ-ς* (*ἄλι- ἅλο-*) the *-v-* is surprising. *φυσι-κός* 'natural', from *φύσι-ς*; *μαντι-κός* 'belonging to a seer', from *μάντι-ς*; cp. Idg. *-igo-* in *ἰππ-ικός* etc., § 87. *ὄστα-κος* 'lobster' no doubt for **osth-go-s*, cp. Skr. *asthán-* 'bone'. The termination *-ιακός* in *ἡλιακός* 'belonging to the sun' (*ἥλιος*), *σκιεκός* 'shady' (*σκιά*) and the like has not been explained: are the forms based on *-en-* stems (such as, say, **ἥλιεν-*), or should we compare Umbr. *corn-ac-o* 'cornicem'?¹⁾

Italic. Lat. *amni-cu-s*, from *amni-s*, *cīvi-cu-s*, from *cīvi-s*, *aedili-ciu-s*, from *aedili-s*. Cp. Idg. *-igo-* in *bell-icu-s*, *patr-icu-s*, *patr-ic-icu-s* and the like, § 87.

The following forms appear to be connected with the same suffix: Umbr. *Kastrusiie* 'Castricii' (beside *kastruvuf* 'fundos' Osc. *castrous* gen. 'fundi') and Osc. *Iúvkiíúí* '*Jovicio', beside Osc. *Viinikiis* 'Vinicius'.

Old Irish. *súile-ch* 'oculus' for **súli-co-s*, from *súil* n. 'oculus', O.Kelt. *are-mori-cí* 'those who dwell before the sea' (O.Ir. *muir* n., Lat. *mare* for **marí*). Cp. Idg. *-igo-* in *cuimn-ech* 'mindful of' and the like, § 87.

Germanic. Goth. *staina-h-s* (stem *staina-ha-*) O.H.G. *steina-g* 'stony', from Goth. *staina-* m. 'stone', Goth. *vaúrda-h-s*

1) Mahlow, Die langen Vocale 102, assumes that *-aró-* with Lat. *-icu-s* Goth. *-ig-s* represents an Idg. *-iako-*, an inference which I cannot accept.

'verbal' from *vairda-* n. 'word', *mōda-g-s* (stem *mōda-ga-*) 'wrathful' O.Sax. *mōda-g* 'excited, spirited', from Goth. *mōda-* m. 'courage, wrath'. The forms *-a-ha-* *a-za-* alternate according to the place of the accent, by the rule given in § 530 p. 386, cp. Skr. *asmāka-andīka-* on the one hand, and *ḥkaká-urvāruká-* on the other. The termination *-a-za-* was transferred to other classes of stems, e. g. O.H.G. *nōtag* beside Germanic *naudī-nauþi-* 'need', O.Sax. *craftag* beside *krafti-* 'strength'.

Goth. *handu-g-s* 'wise' (O.H.G. *hantag* 'sharp') from *handu-s* 'hand', though it is quite possible that the two words are not connected historically but merely by popular etymology (see Kluge, Nom. Stamm. 86, Kauffmann, Paul-Braune's Beitr. XII 202)¹).

Cheruscī is explained by Bremer (Paul-Braune's Beitr. XI 3) as coming from **xērus-ka-* 'hairy', cp. O.H.G. *hār* pl. *hārir* 'hair'. For *-us-* cp. O.H.G. *angus-t* § 101.

In proethnic and later Germanic we find adjectives in *-iza-* regularly corresponding to *-i-*stems, as Goth. *mahteig-s* O.H.G. *mahtīg* 'mighty' from *mahti-*, O.H.G. *creftīg* 'strong' from *krafti-*. But the same termination appears also in adjectives derived from other classes of stems and equally dating from the oldest period of Germanic, as Goth. *váurstveig-s* 'active' from *váurstva-* n. 'work, activity', O.H.G. *jārīg* 'yearly' from *jāra-* n. 'year'; and it must therefore be referred to the Idg. suffix *-igo-* (§ 89); there is no need to suppose an original *-ei-go-* (**maxti-* **maxtei-*), nor can any argument for such a form be based on the obscure Gothic word *ūhtiug* 'seasonable'. We conclude then that in proethnic Germanic *-i-za-* from *i-*stems was replaced by *-iza-*, just as in Gothic we have also the older form *gabig-s* altered to *gabeig-s* (§ 87). The influence of other derivatives with *i* in actual use (e. g. Goth. *váurstvei* f.) was a factor in the change.

Balto-Slavonic. In the Baltic languages the suffix hardly occurs at all in this use; Lith. *pelėka-s* Lett. *pelėk-s* 'mouse-grey' (Lith. *pelė* Lett. *pele* 'mouse') was no doubt formed on the analogy

¹) Osthoff's last suggestion as to *handugs* (Paul-Braune's Beitr. XIII 419) does not commend itself to me.

of adjectives like *jádoka-s* (from *já'da-s* 'black', § 89 c). In Slavonic we have *-okŭ* as a primary suffix, e. g. O.C.Sl. *sŭvédokŭ* 'privy to something, witness', Russ. *chodók* 'goer, foot-messenger', *édók* 'eater'; it probably began in derivatives from noun-stems in *o* (cp. Russ. *chod* 'way, path' beside *chodok*), cp. Skr. *-aka-* p. 258.

§ 87. 3. *-igo-*, a by-form of the Suffix *-go-* (§ 86). This suffix forms adjectives from nouns in Aryan, Greek, Italic and Celtic, and it is so common that it can hardly have arisen independently in the separate languages from the ending of such forms as Gr. *ποι-κός* (*poikós*). Further in Germanic and Balto-Slavonic, as well as in Sanskrit and Latin, *-igo-* is a primary suffix, and this usage must have been derived from its denominative use; so that clearly it had become a single independent suffix in protoethnic Indo-Germanic. But of course there is nothing to prevent our supposing that it did originally spring from noun-stems in *-i-*.

Aryan. Skr. *paryáy-iká-s* 'strophic' from *paryáyá-s* 'rotation, strophe'. It occurs most frequently after the vridhhi-strengthening, which serves also to form adjectives without the addition of any suffix (see § 60 p. 112 f.; cp. *māma-ká-s*, 'my' beside *māma-ka-s*, § 86 b p. 257), as *vasant-ika-* 'belonging to spring' (*vasantá-s*), *varṣ-ika-s* 'belonging to the rainy season' (*varṣá-m*), *āhu-ika-s* 'daily' from *āhan-* n. 'day'. But *-ika-* was not adopted in general use as an adjectival suffix, cp. *rūpa-karṇarū-ká-* etc., § 86 b p. 257.

It is primary in Skr. *vyśc-ika-s* 'scorpion, tarantula', from *vyścedmi* 'I split, cut asunder'.

Greek. *ἵππ-ικός* 'belonging to horses' from *ἵππος*, *παρθεν-ικός* 'maidenly' from *παρθένος*, *νυμφ-ικός* 'bridal' from *νύμφη*, *ἀστ-ικός* 'of the city' from *ἀστυ*, *ἐθν-ικός* 'national' from *ἔθνος* n., *ἀγών-ικός* 'belonging to contests' from *ἀγών*, *ἀνδρ-ικός* 'manly' from *ἀνδρ* gen. *ἀνδρ-ός*. From participial stems in *-to-* there arose a new suffix *-τικός*; e. g. *μαθητικός*, cp. Lat. *-tice-* p. 261.

By the side of *-ικός* we find, though only rarely, *-κός*, as *ἀγών-κός*; see § 86 b.

Italic. Lat. *mod-icu-s* from *modu-s*, *bell-icu-s* from *bellu-m*, *fabr-ica* from *faber* (stem *fabro-*), *gent-icu-s* from *gēns* (stem *gent-*), *histriōn-icu-s* from *histriō* (stem *histriōn-*), *patr-icu-s* from *pater* (stem *patr-*); participial stems in *-to-* gave rise to *-tico-* as an independent suffix, e. g. *cēnāticu-s*, *herbāticu-s*, *volāticu-s*, *rūsticu-s*, *domesticu-s*, cp. Gr. *-τιχο-* above. Similarly *-ic-iu-s* in *caement-iciu-s*, *sūtōr-iciu-s*, *patr-iciu-s* etc.

The Umbro-Samnite dialects shew that *-ico-* was proethnic in Italic, so that (say) *modicu-s* was not developed in Latin out of **modo-co-s*: Osc. *túvtíks* 'publicus' *tóvtico* nom. fem. 'publica', Volsc. *toticu* abl. 'publico', Umbr. *totcor* pl. 'urbici' from **tōtico-*, a derivative of *tōytā-* 'civitas, urbs'; Umbr. *fratreks* *fratrexs* 'fratrics, fratrum magister' *fratreca* 'fratrica' (e from i, see I § 33 p. 34). Cp. also Osc. *Viinikiis* 'Vini-cius' and *múinikad* abl. fem. 'communi', *múltasíkad* abl. fem. 'multaticia'. But we also find Umbr. *Kastrúsiie* and Osc. *Iúvkiíúf* (§ 86 b p. 258), which are hard to explain with certainty.

-igo- is a primary suffix in Lat. *mord-icu-s* *mord-ex*, *med-icu-s*, *vert-ex*; and no doubt also in *pōdex* for **pōzd-ex* ✓ *pezd-* 'pedere' (I § 594 p. 450). Compare the root-vowel of this word with Goth. *gabig-s* (*pōdex*: *pēdere* = *gabigs*: *giban*).

Old Irish. As in Latin, *-ico-*, is a general derivative suffix, i. e. it forms derivatives from all manner of stems. *cúimn-ech* 'mindful of' from *cuman* 'thought, remembrance', *cretm-ech* 'fidelis' from *cretm* 'fides'; feminines in *-iche* = Lat. *-ic-ia*, as *tairismiche* 'immobility' from *tairism-ech* 'immovable' (*tairissem* 'a standing fast'). It is possible however that some of the words in *-ech -iche* (Zeuss² 810 sq.) contain *-iāco-* or *-āco-*.

Germanic. The fertility of *-iza-* was limited on the one hand by the use of *-a-za-* *-a-za-* (§ 86), on the other by that of *-iza-* (§ 89 a). In Gothic it does not occur as a secondary suffix, but it does in Old High German; e. g. *wuot-ig* beside *wuota-g* 'furious'. It is primary e. g. in Goth. *gab-ig-s* 'rich' beside *giban gaf* 'to give', cp. Lat. *pōd-ex*, O.H.G. *heb-ig* 'at which one must strain or heave, heavy' (beside Goth. *hafjan*).

But here too other suffixes encroached upon its use, cp. Goth. *gabeig-s* beside *gabig-s*, O.Icel. *gǫfug-r* *hafug-r*.

On the other hand, *-iza-* is sometimes found where *-za-* must no doubt have been original (§ 88); O.H.G. *entrig* 'strange' (pr. Germ. **andr-izá-*) from *ander* 'other'; possibly however *-iza-* may here represent Idg. *-e-go-* (§ 88 p. 268).

Balto-Slavonic. Here it is not uncommon as a primary suffix. In Lithuanian the root has the vowel of the preterite (cp. Lat. *pōdex*, Goth. *gabigs*). Lith. *szér-ika-s* 'one who gives fodder' from *szeriū* 'I give fodder' pret. *szėrian*, *kirt-ika-s* 'hewer' from *kertū* 'I hew' pret. *kirtaū*, *skund-ika-s* 'who loves to lament', *tup-ika-s* 'squatter'. Lett. *jum-iķ-i-s* 'tile-setter' from *ju'mt* 'to cover', *glūn-iķ-i-s* 'spy' from *glūnēt* 'to lurk', *u'rb-iķ-i-s* 'borer' from *u'rbt* 'to bore'. O.C.Sl. *žez-ikū* 'burning' from *žega* 'I burn' (trans.), *tež-ikū* 'burdensome, heavy' from *težiti* 'to burden', *skač-ikū* 'grasshopper' ('springer'), *meč-ikū* 'bear' ('growler'), *smyč-ikū* 'fiddler'; more frequently we have *-iči*, as *yad-iči* 'eater' *pis-iči* 'writer' *šiv-iči* 'cobbler', *žir-iči* 'offerer, priest'.

There is a class of substantives derived from adjectives which may contain this Idg. *-igo-*, though I do not feel certain that it is so, such as Lith. *jaunik-i-s* 'betrothed husband' (*jáuna-s* 'young'), Lett. *melnik-i-s* 'black horse' (*meln-s* 'black'), O.C.Sl. *rožanīci* 'bow' (*rožanū* 'of horn') *bradatīci* 'bearded man' (*bradatū* 'bearded') *junīci* 'young bull' (*junū* 'young').

§ 88. 4. *-go-* is added to substantives and adjectives without altering their substantival or adjectival character; the meaning of the new word bears to the old much the same relation as Mod.H.G. *schwärzlich* to *schwarz*, [Eng. *blackish* to *black*], i. e. it denotes something 'tantamount to' or something which is merely 'like' the original. From this a diminutival sense was often developed, and hence *-go-* was used in forming familiar and pet names. Yet this modification of meaning frequently died out, so that the new word meant simply the same as the old.

The boundary between this class of words and those given under 2 *b* and 3 (§ 86 and 87) fluctuates considerably. It is

often doubtful whether any particular word belongs to one or the other category.

The diminutival *-go-* is often combined with other diminutival elements, e. g. Lat. *-culo-* = *-go-* + *-lo-*.

Indo-Germanic. Skr. *muṣ-ká-s* 'testicle' *mūṣaka-s* *mūṣika* 'mouse, rat' (*mūṣ-* *mūṣa-s* *mūṣā* 'mouse'), Armen. *mu-k-n*, gen. *mkan*, 'mouse, muscle', Lat. *mus-culu-s* (*mūs*), O.C.Sl. *myšica* 'arm'. **sā-go-* from **sā-* 'sow': Skr. *sā-karā-s* 'pig, boar' (popularly derived from *kar-* 'to make' as 'that which makes the noise *sā*'), Lat. *su-culu-s* *su-cula*, O.Cymr. *hu-ce* 'sus' Corn. *ho-ch* 'poreus', A.S. *su-gu* f. 'sow' (unless we accept Bugge's derivation of this A.S. word from Idg. **suu-*, Paul-Braune's Beitr. XIII. 509 f.). Lat. *ba-cula*, Mid.Cymr. *bu-ch* 'cow'. Armen. *ju-k-n*, gen. *jkan*, 'fish', Pruss. *suckans* i. e. *zu-ka-us* acc. 'fishes', Lith. *žū-k-mistra-s* 'fish-master', beside Gr. *ἰχθῦς* Lith. *žuv-l-s* 'fish' (for the initial sound cp. I § 554 Rem. 1 p. 407 and Bartholomae Ar. Forsch. II 56). Skr. *ajakā ajika* 'little goat' (*ajā-s* 'he-goat' *ajā* 'she-goat'), Lith. *oszkā* (*ožỹ-s* 'he-goat'). Skr. *avi-ká-s* *avi-kā* 'sheep' (*āvi-š* 'sheep'), Lat. *ovi-cula*, Lith. *avi-kỹnė* 'sheep-pen' (*avi-s* 'sheep') O.C.Sl. *ovī-ca* 'sheep'. Skr. *mārya-ká-s* 'mannikin' (*mārya-s* 'man, young man'), Gr. *μῆραξ* 'girl', later also 'boy' *μειράκιον* 'boy'. Skr. *pāṣu-ka-* m. pl. 'dust' (*pāṣú-š* 'dust'), O.C.Sl. *pēsū-kū* 'sand'.

In names of persons: Skr. *dēvaka-s* *dēvika-s* beside *dēva-s* *dēva-datta-s*, Gall. *Dīvicō* *Dīvicia* beside *Dīvō* *Dēvo-gnata*; Skr. *śunaka-s* beside *śunas-karṇa-s*, Gr. *κῡραξ* beside *Κῡρ-αγο-s*; Skr. *sana-ka-s* beside *sana-śruta-s*, Gall. *Seniccō* *Seneca* beside Bret. *Hen-car*, O.H.G. *Sinigus* (Latinised) beside *Sino* *Sin-hart*.

sene-go-* (seno-go-*) meaning probably 'oldish', from **seno-* 'old' (Skr. *sāna-s* &c.): Skr. *sana-ká-s* 'former, old', Lat. *senex* *senica*, (Gall. *Seniccō*, *Seneca*; O.Ir. *senchas* 'antiquity', see § 108), pr. Norse *sinigōstēr* nom. pl. masc. 'oldest' from **sinig-* (cp. F. Burg, Die älteren nord. Runeneinschr. 1885, p. 130 f.). Frankish *Sinigu-s* (Goth. *sineig-s* 'old' see § 89 a), Lett. *senz-i-s* (z for k) 'old inhabitant, a man of olden time'. Armen. *ancu-k* *anju-k* O.C.Sl. *qzū-kū* 'narrow', beside Skr. *qhū-š* 'narrow'.

Aryan. Skr. *aśva-ká-s* 'little horse' from *áśva-s* 'horse', *śíśu-ká-s* 'little child' from *śíśu-ś* 'child', *rāja-ká-s* 'petty king' from *rājan-* 'king'. Avest. *drafša-ka-* m. 'little banner' from *drafša-* m. 'banner', *aper'nāyū-ka-* m. 'little child' from *a-per'-nāyu-* m. 'child' (orig. 'not of full age'), *kaini-ka-* 'little girl' beside *kainin-* f. 'maid, maiden'.

Familiar and pet names, e. g. Skr. *vasu-ka-s* O.Pers. *vahu-ka* beside Skr. *vasu-ś vasu-datta-s* Avest. *vohu-data-*, Skr. *datta-ka-s* *dattika-s* beside *datta-s* *datta-śatru-ś agni-datta-s*.

No difference of meaning can be detected in the following examples. Skr. *vádha-ka-s* and *vadhá-s* 'murderer', *ásta-ka-m* and *ásta-m* 'home', *iṣu-ká-* and *iṣu-ś* f. 'arrow', *uda-ká-m* and *udán-* n. 'water', Avest. *mašyaka-* and *mašya-* m. 'mortal, man', *pasu-ka-* and *pasu-ś* m. 'cow' (cp. Skr. *paśu-ka-* a small animal), O.Pers. *spanax* (Herodotus) and Avest. *span-* 'dog'.

Similarly there is no serious difference in meaning between Skr. *arbha-ká-s* and *árbha-s* 'small', *nágna-ka-s* and *nagná-s* 'naked', *ējāt-ká-s* and *ējant-* 'trembling, quivering', *añīyas-ká-s* and *añīyas-* 'thinner, finer' (cp. Lat. *melius-culū-s*). Thus adjectival compounds like *vigata-śrī-ka-*, which we noticed in § 86 p. 257, may also be classed here. In Sanskrit, forms like *śikṣu-ka-s* 'imparting, generous' (*śikṣu-ś* the same), *pramāyu-ka-s* 'falling into ruin, perishing' (*pramā-yu-ś*, the same) and the like gave rise to an independent primary suffix *-uka-*, e. g. *dāśuka-s* 'biting', *vi-kāsuka-s* *vi-kasuka-s* 'bursting'.

For feminine substantives the usual suffix is *-ika-* (corresponding to masc. *-aka-*), as *nāsikā-* du. beside *nāśā-* du. 'nose', *iyattikā-* fem. of *iyattakā-* 'so small'. Whilst the forms in *-aka-* express the fem. by simple differentiation (*Motion*) of the masc.-neut. stem *-aka-*, *-i-ka-* was originally derived from fem. *i-*stems (cp. also Avest. *nāirika-* beside *nāiri-* *nāirī-* 'wife', *carāitika-* 'girl, wife' beside *carāiti-* *carāiti-* 'wife').

Armenian. A further suffix *-en-* was added to the stems of the substantives formed with *-go-*. We have already noticed *mukn* 'mouse, muscle' from **mus-go-* or **mūs-go-* (I § 561 p. 417) and *ju-k-n* 'fish'. To these should be added *armukn*, gen.

armkan 'elbow, hend' (beside Lat. *armu-s* Goth. *arm-s*); perhaps its resemblance to *mukn* is more than accidental.

ancu-k anju-k 'narrow' see p. 263 above.

Greek. With a diminutival or contemptuous sense, more or less obscured: *μῆραξ* 'girl' (p. 263), *δέλφαξ* 'pig, sucking pig', *βῶμαξ* 'small altar', *λίθαξ* 'stone', *λεῖμαξ* 'meadow'. Attached to these are unmistakable diminutives like *μειράκιον* 'little boy' *σπινθηράκιον* 'little spark' (cp. *ἀσπίδιον* 'little shield' § 63 p. 128). Add also pet names like *Ἰππακος* beside *Ἰππος* *Ἰππ-αρχος* *Ἀρχ-ιππος*, *Πύρακος* beside *Πύρρος*, *Λάβραξ* beside *Λάβρος*, *Φαῖναξ* beside *Φαῖνη*, *Μόλυκος* *Μόλυξ* beside *Μόλος* *Μόλ-ορχος* *Ἀγρί-μολος*.

The *α* which precedes the *-x(o)-* in *-ακος* *-αξ* points to *-y-go-* as the earlier form (cp. *ὄστακος* § 86 p. 258 and Skr. *rājaka-* for **rājṛ-ka-*, Germ. *-un-za-*). Thus *Ἰππακος* (: *Ἰππων*), *λεῖμαξ* (: *χειμῶν*) and the like may have set the type for this group of forms; *Ἰππακος*: *Ἰππων* = O.H.G. *Berhtung*: *Berhto* (see below, p. 267). *μῆραξ* for **μερραξ* (: Skr. *marya-ká-s*) may perhaps be an extended form from a stem **μερρι-*.

ὀδᾶξ 'with the teeth, mordicus' was derived from a stem **ὀδατ-κο* **ὀδακx(o)-* 'tooth': Skr. *a-datka-* 'toothless', A.S. *tusc* or *tāsc* O.Fris. *tusk* O.Icel. *toak-r* 'tooth' pr. Germ. **tuns-ka-*, common ground-form **dpt-go-*, beside *ὀδούς* Goth. *tunþ-u-s* 'tooth' (cp. I § 527 p. 383). But *δάκνω* obviously influenced its meaning and perhaps its form also. In the same way we have *γνύξ* 'with bended knees' from *γνύ-* 'knee'. As to their use as adverbs see § 86 p. 256.

πηλί-κος 'how great? how old?' *τηλί-κος* 'so great, so old' from **παλι-* **ταλι-* = Lat. *quali-s tali-s*: similarly O.H.G. Alemann. *we-lēr* 'how produced?' *so-lēr* 'thus produced' pr. Germ. **-li-χa-*, cp. also O.C.Sl. *kolikŭ tolikŭ* § 89 a. Beside Att. *ήλικο-ς* *ήλιξ* stands *βαλκικιώτης* (more correctly *-τας*) *συνέφηθος*. *Κρητες* in Hesychius, which points to a form **syalī-*.

Italic. Lat. *homun-c-iō* 'mannikin' from *homō*. **albi-co-* 'whitish' **nigrīco-* 'blackish' in *albicare nigricare*. *prīs-cu-s* beside

prius. paucus-s for **pavi-co-s* (cp. *pauper* for **pavi-per*). *sene-x seni-ca*: Skr. *sana-kū-s* see above, p. 263.

The usual suffix is *-culo-*, i. e. *-go-* + *-lo-*, the second of which is itself diminutival (§ 76 p. 205 f.). This extension of the suffix dates from proethnic Italic, and in many words was no doubt intended to revive the diminutival force which at the time was disappearing or had quite disappeared. Lat. *ovicula*: **orica* (Skr. *avi-kā*) = *lupula*: *lupa*; similarly *pauculus-s*: *paucus* = *frigidulus-s*: *frigidus*.

bū-cula: Mid.Cymr. *bu-ch* 'cow'. *su-culu-s*: O.Cymr. *hu-ce* 'sow', Lat. *diŕ-cula*, Osc. *zi-colom* 'diem' (the diminutival sense of *-colo-* has disappeared). Lat. *fūni-culu-s*, *classi-cula*, *spē-cula*, *nūbē-cula*, *frāter-culu-s*, *amātor-culu-s*, *homun-culu-s*, *aedificatiun-cula*, *mus-culu-s*, *corpus-culu-m*, *arbus-cula*, *corculu-m* (i. e. **cord* + *culum*).

Remark 1. The *i* in *crāticula*, *febri-cula*, *apicula* and similar words may be variously explained. The first analysis must certainly be *crātic-ula* not *crāti-cula*. Cp. § 89 a p. 271.

seniculu-s: *senex*, *nigriculu-s*: *nigricāre*, *leviculu-s*, *dulciculu-s*, *pauper-culu-s*, *melius-culu-s*, *tardius-culu-s*, (cp. *prīs-cu-s* and Skr. *anīyas-hi-s*).

Keltic. O.Cymr. *hu-ce* 'sus' Corn. *ho-ch* 'porcus': Skr. *sū-lavī-s* see p. 263 above; we must no doubt add O.Ir. *sacc* 'plough-share', properly 'pig's snout', see Thurneysen, *Keltorum*. 112 f. 1). Mid.Cymr. *bu-ch* 'cow': Lat. *bū-cula*. *aire* (gen. *airech*) 'princeps' for **ariah-s*, Skr. *ārya-ha-s* 'honourable man', from *aryā-* 'devoted, pious'. Proper names: Gall. *Dīricō* *Dīricia*, see above, p. 263.

Remark 2. Here may also be mentioned O.Ir. *menar* Mod.Cymr. *mympol* 'frequens', though their relation to Goth. *manag-s* 'much', and O.C.Sl. *manogŭ* 'much' is not clear. Does the Slav. word contain Idg. *-go-* (§ 91)? Or should we regard it as a word borrowed from Germanic? Cp. Schleicher in his and Kuhn's *Beitr.* V 112 f.

Germanic. A.S. *tusc* or *tisc* 'tooth' ground-form **dpt-go-*, see above, p. 265.

1) Cp. Gr. *σάκος* 'ploughshare', which is usually connected with *σάβανον* (cp. Solmsen, Kuhn's *Beitr.* XXIX 51).

-go- was added to *-en-*, which formed substantives denoting a thing or person standing in some characteristic relation to the idea of the original word; hence arose in protoethnic Germanic the suffix *-uŋza-* (and beside it *-iŋza-*, with no difference in meaning). The suffix *-go-* in this use in historical times is merely an amplification of the suffix to which it is added, and has no special meaning of its own; at most we may credit it with some part of the idea of pity or contempt implied in words like O.H.G. *arming* 'homo pauper, miser' *abansting* 'homo invidus', which are common enough. We may compare the relation of O.H.G. *Berhtung Berhting*: *Berhto* (gen. *Berhtin*), *arming*: *armo* (gen. *armin*) 'poor' with that of Gr. *Πεποιος*: *Πεποιος*. This compound suffix was soon added to stems with *l*-suffixes, e. g. O.H.G. *sidil-ing* 'settler' from *sedal* 'seat', *edil-ing* 'man of noble blood' from *edili* 'noble'. Thus there arose an independent suffix *-(i)lunza-* *-(i)linza-*, which was fertile in North and West Germanic.

Remark 3. It is difficult to determine the relation between *-inza-* and *-unza-*. The latter form appears to be older, e. g. in tribe names like *Greuthungi* (Amm. Marc.). The most natural assumption is that at the time when the connexion between *-unza-* and the *en*-stems was still recognised, *e* (later *i*) was introduced through the influence of the cases which had the strong form *-en-* (later *-in-*). Yet it is quite conceivable that *-unza-* and *-iŋza-* were contaminated (§ 87 p. 261), or that *-inza-* started from stems in *-in-*, which existed in the pre-Germanic period (see § 115); *-inza-* *-inŋa-* would come from *-inza-* *-inŋa-* just as **junza-* *junŋa-* 'young' from **jünza-*, see § 83 and I § 179 p. 156; cp. *Berhting*, O.Icel. *Birting-r* 'a brilliant, famous man' by the side of Goth. *bairhtei* O.H.G. *perahiti* f. 'brightness'; O.Icel. *speking-r* 'wise man' beside *speks* -i f. 'wisdom'. There is a good deal of evidence for the last explanation, which seems to me the best; if it be correct, then the *-inza-* forms must have been originally adjectival (§ 86 b p. 259); Rem. 4. p. 268.

Examples. O.H.G. *hūsingā* pl. 'penates' ('those who belong to the house') O.Fris. *hūsing* 'member of the household', O.H.G. *chamarling* 'chamberlain' *hofling* 'courtier', *bāring būling būwel-ing* 'peasant' from. *bār*, *bū* 'habitatō', *sidiling* 'settler' from *sedal* 'seat', A.S. *bedling* 'he who lies lazily in bed, effeminatus', O.H.G. *sarling* 'who is hidden in armour (*saro*), soldier', *fūstiling* Mid.H.G. *viustinc* 'mitten', Mid.H.G. *hendelinc* 'glove', O.Icel.

fingrung-r 'finger-ring', Mid.H.G. *bertinc* 'lay brother' from *bart* 'beard', O.H.G. *wihseling* 'changeling', *zwineling* 'twin', O.Icel. *vetrung-r* 'a beast one winter old', *hofding-r* 'chieftain, captain'; names of families and tribes like A.S. *Skyldungas* O.Icel. *Skjöldungar*; A.S. *Hrēdliŋz* 'son of *Hrēdel*'; O.Icel. *attung-r* 'kinsman' from *att* 'race', O.H.G. *chunniling* 'kinsman' from *chunni* 'race', O.Icel. *systrung-r* 'mother's sister's son' O.Fris. *susterling* 'sister's child', O.H.G. *sunufatarungo* pl. 'the people of the son and the father'. These is but one example in Gothic, *gadiligg-s* 'cousin': O.H.G. *gotiling* *gatuling* O.S. *gaduling*.

The use of these forms in the feminine as abstract substantives in Norse and West-Germanic was no doubt established by the same process as in e. g. O.H.G. *forahta* 'fear' contrasted with *foraht* Goth. *faúrht-s* 'full of fear' (§ 79 p. 235 f.); similarly Lat. *fabrica* 'formation manufacture', (from *faber*); cp. also § 158. O.Icel. *hādung* 'an insulting' from *hād* 'insult, scoff', *launung* 'secret' from *laun* (the same), with which primary formations like *kvisting* 'murdering' (from *kvista* 'to murder') became associated. O.H.G. *werdunga* 'dignitas' from *werd*; primary in e. g. *hantalunga* 'handling', from *hantalōn* 'to handle'. In O.Icel. we have also side by side *birting-r* 'bright one' and *birting* 'brightness', *ginnung-r* 'deceiver, impostor' and *ginning* 'deceit', and the like.

Remark 4. If *-inza-* *-inȝō-*, were derived from the suffix *-in-* which is itself used to form abstract substantives (see Rem. 3), we should further have to consider whether the fem. *-in-ȝō-*, as in O.Icel. *birting*, was not formed immediately from the *in-*stem by the addition of *-go-* merely as an amplification.

Adjectival stems were extended by *-go-*, e. g. O.H.G. *gōra-g* 'pitiful' beside Goth. *gáur-s* 'sorrowful', O.Icel. *qrđug-r* 'steep' beside Gr. ὄρϑός Lat. *arduo-s* (I § 306 p. 241). Here must be classed also O.H.G. *entrig* 'strange' (from *ander* 'other'), if the termination is Idg. **-tre-qó-*, not **-tr-igó-* (§ 87 p. 262). *-ȝō-* was generally substituted for the original ending as in Goth. *sineig-s* 'old' (contrast Skr. *sana-ká-s* p. 263), see § 89 a p. 271.

O.H.G. Alemann. *welër* 'how made?' see above, p. 265.

Remark 5. The origin of this word is therefore distinct from that of O.H.G. *wie-lîh* Goth. *wei-leik-s* 'what sort of', a compound of Germ. *-lika-* 'body, form'. But the termination *-li-χa-* was associated with this by popular etymology, just as in Skr. *-i-ka-* *-ū-ka-* *-ā-ka-* were associated with *-ānc-* (see p. 256).

Balto-Slavonic. *-ugo* is common to Baltic and Slavonic as a diminutive suffix. There can be no doubt that it first appeared in *u*-stems, cp. O.C.Sl. *synükü* 'little son': *synü*, gen. *synu* 'son'. So Lith. *parszūka-s* 'little sucking pig' beside *pařsza-s*, *medūka-s* 'little tree' beside *mēdi-s*, O.C.Sl. *cvētükü* 'floweret' beside *cvētü* gen. *cvēta*. In Slavonic the same suffix was also used for the extension of adjective stems, yet with the loss of what was originally its special sense: *qzükü* 'narrow': Armen. *ancuk anjuk* 'narrow' (Skr. *qñú-š*), *sladükü* 'sweet' (Lith. *saldū-s*); others are not derived from *u*-stems e. g. *bridükü* 'bitter', *lēpükü* 'ornament'. Cp. further Pruss. names like *Banduke* (*banda-* 'useful') *Wyrucke* (*vira-* 'man').

Similarly the diminutival *-i-go-*, which first appeared in *i*-stems, was extended beyond its original sphere in both Baltic and Slavonic. Yet *-i-go-* itself is not used with this function, but only *-i-q-jo-* *-i-q-ja-*, which contains the additional suffix *-jo-*. Proethnic examples are: O.C.Sl. *ovī-ca* 'sheep', cp. Lith. *avi-k-ŷnē* 'sheep-pen': Skr. *avi-kā* etc., see p. 263 above; O.C.Sl. *mýřica* 'arm' orig. 'little mouse, muscule': Skr. *mūřika* 'mouse, rat', cp. loc. cit. In both these words the original diminutival sense was lost. Other examples are: Lith. *rankikē* 'little hand', *kumelikē* 'little (bad) mare', *mamikē* 'little mother' (in Lith. only feminines), O.C.Sl. *kamenīcī* 'little stone', *korablīcī* 'little ship', *děřica* collective 'little children' (*děřī* 'children'), *děřīca* 'little door' (*děřī* 'door'). Compare also Prussian names like *Teviko* (*tewa-* *tāwa-* 'father').

Here should also be classed Lith. *-in-inka-* Lett. *-(i)n-īka-en-īka-* (*i* comes from *en*), combinations of suffixes which denote any kind of relation to the original word, e. g. Lith. *darb-iniñka-s* (Lett. *da'rbīnik-s*) 'worker' from *dārba-s* 'work', *dařž-ininka-s* (Lett. *da'rfñik-s*) 'gardener' from *dařža-s* 'garden', *pūs-ininka-s*

'owner of half a measure of land, small proprietor', *lauk-iniñka-s* 'dweller in the fields, countryman', *Lētūt-ininka-s* 'a Lithuanian' from *Lētud* 'Lithuania', Lett. *gudrinik-s* 'wiseacre' from *gudr-s* 'wise', *sweschinik-s* 'stranger' from *swesch* 'strange', *Ridfinik-s* 'man of Riga' from *Riga* 'Riga', *uppenik-s* 'dweller by a river' from *uppe* 'river'. By the side of this suffix, with a similar meaning, stands Lith. *-in-yka-* Pruss. *-n-ik-i-* O.C.Sl. *-n-iko-*, which I refer to Idg. *-iqo-*, see § 89 a. The second part of Lith. *-in-inka-* should no doubt be identified with Germ. *-m-za-* (cp. I § 249 p. 204 f.), and it must be assumed that in Baltic there once existed forms like **dearinka-s* **dearenka-s* 'courtier' (should we add here the forms *měsēcī* 'month' *zajęcī* 'hare', which are quite isolated in Slavonic?) and that their suffix was confused with *-(i)n-ika-* (*dvārinyka-s* O.C.Sl. *dvorīnikū*) producing Lith. *-in-inka-* (*dvārininka-s*) Lett. (**n-enka-*) *-n-ika-*.

Remark 6. I prefer this view to that proposed in I § 219, 4 p. 186, which I have now abandoned, that Slav. *-ikū* is the phonetic equivalent of Lith. *-inka-s*. I have to thank Leskien for suggesting the above explanation.

§ 89. 5. *-īqo-* *-īqā-*, *-ūqo-* *-ūqā-* and *-āqo-* *-āqā-*. The long vowels preceding the *q* may, like the *i* of *-iqo-* (§ 87), represent the final of a noun-stem; but it is not clear in what particular words these forms of the suffix first appeared. No general definition of their functions can be given.

a. *-īqo-*. Cp. Skr. *ānī-ka-* § 86 a p. 256, *sācī-ka-* *sa-patnī-ka-* § 86 b p. 257.

Aryan. It is rarely denominative: Skr. *and-ika-s* 'bearing eggs', from *andā-m* 'egg'. More frequently it is primary: Skr. *dfś-ika-s* 'conspicuous' *dfś-ika-m* 'aspect' *dfś-ikā* 'appearance', *ṛdḥ-ika-s* 'augmenter', *myd-ikā-m* 'pity, grace'.

In Greek it is rare. *πέδο-ῖς* 'partridge' (properly 'peditor', though its resemblance to *πέδος* may perhaps be due merely to a freak of popular etymology), *πέυθ-ῖς* 'top'.

Italic. Denominative forms: *umbil-icu-s* (cp. Gr. *ὀμφαλό-ς*), *rubr-icu-s* *rubr-ica*, *lect-ica* and others. Primary forms: *am-icu-s*, *mend-icu-s*, *pud-icu-s*, and others; add also *pēdicāre* from

a stem **pēd-ico-* with the same meaning as *pōdex* (§ 87 p. 261). -*īc-io-* and -*t-īc-io-* (cp. -*t-ico-* § 87 p. 261) are derived suffixes e. g. *novīciū-s*, *ad-ventīciū-s*. Some nouns in -*īgo-* have passed into the consonantal declension: *fēlix*, *pernīx*.

Perhaps we should also class here *crāticula* and the like, see § 88 Rem. 1 p. 266.

In Germanic. -*īza-* appears with various functions. It forms adjectives from nouns, e. g. Goth. *mahteig-s* 'mighty' from *mahti-* 'might', O.H.G. *spenstīg* 'alluring' from *spanst* f. 'allurement, enticement'; here -*īza-* has taken the place of an older -*za-* (-*i-za-* -*a-za-* etc.), see § 86 p. 259. It extends adjectival stems without altering their adjectival character, e. g. Goth. *andanēmeig-s*: *anda-nēm-s* 'pleasant', O.H.G. *wirdīg*: *werd* 'worthy', *rihtīg*: *reht* 'right'; -*za-* has the same function, e. g. in O.H.G. *gōra-g*: Goth. *gāur-s* 'troubled', see § 88 p. 268; there can be no doubt that in this use also -*īza-* has spread beyond its original sphere, cp. Goth. *sineig-s* instead of orig. **sene-go-* or **seno-go-* (p. 263). Finally it occurs as a primary suffix, e. g. in Goth. *gabeig-s* beside the older *gabig-s*, see § 87 p. 261.

Balto-Slavonic. Both branches have -*īgo-* as a secondary suffix, in substantives which are generally derived from adjectives, and express any kind of relation to the original word. In Baltic (Lith. and Pruss.) these forms are nearly always derived from nouns with an *n*-suffix, Lith. -*in-yka-s* Pruss. -*n-ik-i-s*, in Slavonic from others also. In Lithuanian -*ininka-s* is exactly equivalent to -*inyka-s*, but the two suffixes are distributed amongst the various dialects; in some the first, and in others the second was alone in use; in many of the districts bordering on Slavonian territory the Slav. -*īnikū-* may have helped to establish the form -*inyka-s* (there are a large number of such words borrowed from Slavonic, e. g. *metelnyka-s* 'impostor' = Pol. *mietelnik*). Lith. *darbinyka-s* beside *darbiniūka-s*, etc., see § 88 p. 269 f. Pruss. *laukinik-i-s* 'vassal, feudal dependant' (Lith. *laukingyka-s* *laukiniūka-s*), *slidenik-i-s* 'leading hound', *stubonik-i-s* ('booth-owner' hence) 'cupper, surgeon'. O.C.Sl. *zlatikū* a gold coin (*zlatū* 'golden'), *šrebrīnikū* *šrebrīnika* 'silver coin' (*šrebrīnū*

'silvern'), *krūcīnikū* 'murderer' (*krūcīnū* 'bloody'), *grēšīnikū* 'sinner' (*grēšīnū* 'sinful'), *olasēnikū* 'who has a hairy (*olasēnū*) garment'; from participles, e. g. *učenikū* 'scholar, disciple', (*učenū* 'becoming learned') *izbranikū* 'one elected, chosen' (*iz-branū* 'elected'); from subst. e. g. Russ. *babik* 'fop, ladies' man' (*baba* 'woman'), *séverik* 'north wind' (*séver* 'north'). In Lithuanian we have only isolated examples of derivatives without the *n*-suffix, as *dalỹka-s* 'piece, part' from *dalĩ-s* 'part'.

O.C.Sl. *sikū* 'talīs' (also *sicŭ*, cp. *ljubimicŭ* beside *ljubimikū* and the like) from *sŭ* 'hic', *tolikū* 'tantus' *kolikū* 'quantus', compare also *velikū* 'great' beside *velijŭ* 'great': cp. Gr. *πηλίκος* O.H.G. *welŕ* § 88 p. 265.

Further *-ikū* forms diminutives and pet names in Slavonic, as Russ. *domik* 'little house' *mjačik* 'little ball', Lower Sorb. *gašik* 'little pond', *gjarnyk* 'little pot'; Czech *Volík* beside *Vol*, *Vladík* beside *Vlad*, Mod.Slov. *Nanika* 'Annie'.

Primary: O.C.Sl. *-ica*, as *ljubica* 'amator', *žřica* 'sacerdos'.
b. *-ūqo-*. Cp. Skr. *ānā-ka-* § 86 a p. 256.

Aryan. In Sanskrit, it is found primary adjectives containing reduplicated verbal forms, as *dan-daś-āka-s* 'biting' (cp. *dāśuka-s* 'biting' § 88 p. 264), *jā-jar-āka-s* 'watchful', *vā-vad-āka-s* 'talkative'.

Greek. It is found in isolated words as a primary suffix: **ήρῶξ* (Dor. etc. **ἀρῶξ*) 'herald', cp. Skr. *ca-kar-ti* 'he extols' *karú-ṣ* 'praiser'.

Italic. In Latin it occurs a few times in primary use e. g. *cad-ūcu-s*, *fīdūc-ia*, and not more often as secondary, e. g. *aerūca* (beside *aerūgō*) from *aes*, *lactūca* from *lac* (*lact-is*).

In Slavonic it is a primary suffix in a few words, e. g. O.C.Sl. *jěz-ykū* 'tongue, speech' (: Pruss. *ins-uo-i-s* 'tongue'), *olad-yka* 'ruler, lord', Russ. *kl-yk* 'hewer', pol. *bzd-yk* 'peditor'.
c. *-āqo-*.

Aryan. Here *-āka-* is ambiguous, so that no forms can be said with certainty to be derived from *-āqo-*. Besides Skr. *asmāka-s* etc. (§ 86 b p. 267) the following may be examples: *pavakā-s* Ved. 'clear, pure' (to be read, as the metre indicates,

for the *pāvākā-s* of the Mss.), *jālpākā-s* beside *jālpākā-s* 'talkative', *bhikṣākā-s* 'beggar'.

Greek. *νέας* 'youth': O.C.Sl. *novākū* 'novice'. *θώραξ* Ion. *θώραξ* 'breastplate'. *ὄσπηξ* Lesb. *όσπας* 'little sprout or shoot'. *πῆληξ* 'helmet'. *σφῆξ* 'wasp', which no doubt is for *σφ-αα-* i. e. 'a creature that lives in swarm', compare Skr. *sabh-ā* 'assemblage' Goth. *sib-ja* 'kinsman' (Baunack, Stud. auf dem Geb. des Griech. I 25).

Italic. In denominative formations: *merācu-s* from *meru-s*, *lingulācu* from *lingulu-s*, *verbēnācu* from *verbēna*; *opācu-s* is no doubt to be compared with *op- ob.* *-ax* is common both in primary and secondary use: *bibāx*, *loquāx*, *persequāx*, *mordāx*, *audāx*, *pūgnāx*, *vērāx*.

Old Irish. *-ako-* is common to all Celtic languages, forming adjectives from substantives, as in *marcach* Mid.Cymr. *marchawc* 'equester' from *marc* 'horse', *cumachtach* Mid.Cymr. *kyfoethawc* Corn. *chefuidoc* 'mighty' from *cumachta* 'might'. It is also found in proper names, as Gall. *Dumnācu-s* Mid.Cymr. *Dyfnawc*, Gall. *Tento-bōdiācī* (pl.) Mid.Ir. *Buadhach*, Gall. *Benācū-s*; its originally adjectival character appears clearly in place-names in *-ācum* like Gall. *Avitācum* i. e. 'praedium Aviti' (Zeuss² 806).

Germanic. Goth. *ainōhō* Luke 8, 42, fem. of *ainaha* 'unicus', which is usually adduced here, is most probably nothing but a scribe's mistake (perhaps caused by *ainōhun?*).

Balto-Slavonic. Lith. *tōk-s* gen. *tōk-io* O.C.Sl. *takū* 'talis'; similarly *kōk-s* *kakū* 'qualis?', *jōk-s* 'any one' *jakū* 'qualis', *anōk-s* 'of that kind' *onako* adv. 'so', *dvejōka-s* *dvojakū* 'twofold' *trejōka-s* *trojakū* 'threefold'. There are only one or two examples to add from Slavonic: e. g. O.C.Sl. *jedinakū* 'aequalis' *dru-gako* adv. 'otherwise' (cp. Lith. *vėnōka-s* *vėnōk-s* 'of one kind' *kitōk-s* 'of another kind'), but in Baltic this suffix was very fertile in forming new adjectives from those already in use to express an approach to the meaning of the original: Lith. *jūdōka-s* 'blackish' (*jūda-s* 'black'), *silpnōka-s* 'weakish, rather weak'

(*nāpma-s* 'weak'), *saldōka-s* 'sweetish, rather sweet' (*saldū-s* 'sweet'), *didōka-s* 'rather large' (*dīdi-s* 'large'); in Lettish it became the ordinary comparative suffix, as in *sa'ldāk-s* 'sweeter' (*sa'ld-s*), *labbāk-s* 'better' (*lab-s*).

-aqo- was further employed in Balto-Slavonic to form substantives from adjectives to denote something characterised by the quality which the adjective expressed. So Lith. *naujōka-s* (O.C.Sl. *novakū* 'novice' (Serv. *novak* 'new moon') from *naūje-s* *novu* 'new'; (Ir. *naξ*; Lith. *trecziōka-s* 'threepenny-bit' (strictly a coin worth three copper groschen) *szesztōka-s* (twice as much), (O.C.Sl. *tretijakū* 'a three-year-old'; (O.C.Sl. *junakū* 'a youth'; (O.C.Sl. *bujakū* 'fool, blockhead'; finally personal names in *-akū*, as Russ. *Gojak*, Czech *Istak*, *Modlak*.

The difference in accentuation between *trejōka-s* and *trecziōka-s* should be noticed. The Gliding¹) (*geschliffen*) accent in *tōks* replaced the Incisive (*gestossen*) in consequence of the loss of the final syllable, cp. *tōkio*.

§ 90. The Suffix *-sko-* *-sku-* and (in Germanic and Balto-Slavonic) *-isko-* *-iskā-*. We have to consider chiefly the primary noun-suffix *-sko-*, which is identical with the verbal suffix *-sko-* forming present stems. Occasionally we meet with forms which point to an original *-spo-*. I must leave it an open question whether to regard these as two entirely distinct forms, or to suppose that the velar was substituted for the palatal in the original suffix by some secondary process, cp. I § 467 p. 142 f. I confess however that the latter view seems to me more probable.

In Old-Germanic: **grīs-skō* 'question, investigation, enquiry' (cp. *Skr. grāhan* 'to ask', *grāh-* 'ask'; *Skr. grāh-*, Armen. *grāh-* 'to ask', transformed by the *diehlung* into *grāh-*); **grīs-skā* 'question' (cp. *Skr. grāh-* 'to ask', *grāh-* 'ask', *grāh-* 'ask').

¹ I am very sorry to learn from Dr. W. J. B. that the pronunciation of these forms in the 19th century was the same as the present one, and that the loss of the final syllable was not noticed until the 19th century.

'longing, wish', Armen. *aic* 'enquiry' (only found in the accusative and then only in certain phrases), O.H.G. *eisca* 'an asking, demanding'. Skr. *vāṇcha* 'wish' O.H.G. *wunsc* m. 'wish, desire', beside Skr. *vāṇchāmi* 'I wish', √ *yeu-* 'find pleasure in something'; in Sanskrit, the nasal is due to the analogy of kindred forms (Bartholomae Ar. Forsch. II 91), **vā-ch* is for **uṇ-sk-*, and *wunsc* for **uṇ-sko-*.

Aryan. There are but few examples to be added from Sanskrit. *mūrcha-* 'weakness' beside *mūrchāmi* 'I freeze, grow torpid' (compare *mūrkhā-* 'stupid, dull, unintelligent' which may be classed with *sargā-* and the like, I § 467, 1 p. 342 f.), beside *mār-tā-s* 'curdled'; if Goth. *un-tila-malsk-s* 'thoughtless' and O.Sax. *malsc* 'haughty' come from the same word, its form in pr. Idg. would be **m̥l-sko-*. *mlēchā-s* 'foreigner, barbarian', beside *mlēchāmi* 'I jabber'; the Pāli form *milakkha-* is still obscure, in spite of E. Kuhn's attempt to explain it in his Ztschr. XXV 327.

Armenian. See above. Perhaps also *p'uḷ* 'breath, flatus' beside *p̄cēm* 'I breathe, blow', cp. Gr. *φύσα* 'blister, weal' *φύσκη* 'intestine, sausage' beside *φύσα* 'blowing, blast', √ *phu-* or *sphu-* (the weak form).

Greek. *δίσκο-ς* 'quoit' for **dik-sko-ς*, beside *διχεῖν* 'to throw'. *βο-σκή* 'fodder, pasture', beside *βόσκω* 'I feed'.

Here apparently we must class the diminutives¹⁾ in *-isko-* (which do not occur in Homer), as *παῖδισκο-ς* 'little boy' *παιδίσκη* 'little girl', *οἰκίσκος* *οἰκίσκη* 'little house', *χοιρίσκος* 'little pig', *ὑδρίσκη* 'little pitcher'. These may be connected with presents in *-ισκω* (like *ἐγρίσκω*), and the (primary) forms on which the rest were modelled (cp. *ἄρεσκος* 'pleasing' beside *ἀρέσκω*) may have arisen when such presents still had the sense of becoming, of gradual realisation, compare *νεανίσκος* with Lat. *adulēscēns*.

Italic. Lat. *ēscā* for **ed+scā* and its opposite *pōscā*. Also *rescu-s* properly 'eaten away'), beside *rescor*, if this group of

1) Janson, De Graeci sermonis diminutivis in *-isko-ς*, Thora 1856.

words contains *-sko-* (cp. Osthoff, *Zur Gesch. d. Perf.* 606; Baunack, *Kuhn's Ztschr.* XXVII 561 ff.).

Germanic. O.H.G. *forsca eisca unusc* Goth. *-malsk-s* see above p. 275. O.H.G. *frosk* O.Icel. *frosk-r* 'frog' for pr. Germ. **fruz-ska-*, cp. A.S. *frozga* 'frog'. —

Here must be classed the secondary adjectival suffix, Germ. *-iska-*, Lith. *-iszka-*, Slav. *-isko-*. It denotes origin and connexion, or fitness and quality.

Germ. Goth. *judaivisk-s* 'Jewish', *piudisk-s* 'ēþvaxóʒ' O.H.G. *diutisc* 'German'; O.H.G. *frencisc* 'Frankish', Goth. *mannisk-s* 'human', *gudisk-s* 'divine', *funisk-s* 'fiery', O.H.G. *irdisc* 'earthly', *antarisc* 'strange', *dorfisc* 'belonging to a village, rustic, clownish', *mordisc* 'murderous', *altisc* 'old'.

Lith. *prūsizska-s* 'Prussian', *lētūviszka-s* 'Lithuanian', *dēviszka-s* 'divine', *tėviszka-s* 'fatherly', *daūgizska-s* 'heavenly': substantives are formed from it by *-io-*, e. g. *namiszkī-s* m. *namiszkė* f., 'member of a household', *mūsiszkī-s* 'one who is ours', *Klaipėdiszkī-s* 'inhabitant of Memel', *tėviskė* 'patrimony or father's house, fatherland, home'. O.C.Sl. *rumīskū* 'Roman', *židoriškū* 'Jewish', *kūnčīškū* 'princely', *dětīskū* 'childish', *nebesīskū* 'heavenly'.

The history of this suffix involves considerable difficulty.

Remark. It may be suspected that the Balto-Slavonic suffix was borrowed from Germanic (see I § 587 Rem. 2 p. 442): in Romance indeed *-isco-* (Ital. *grechisco*, *donnesco*) was borrowed from Germanic and Slav. *-arī* Lith. *-oriu-s* came from Germ. *-ariu-*. It is quite possible that it is a compound suffix *-is+ko-* (compare § 86) (cp. Skr. *arētās-ka-* *mastiṣka-*); and if so it would be a question whether O.H.G. *altisc* and other forms derived from adjectives did not contain the comparative stem (cp. Skr. *apīnas-kū-* p. 264). Finally it is conceivable that it is an analogical modification of Idg. *-iqo-* (§ 87).

§ 91. The Suffix *-go-* *-gd-*. The following forms may be quoted towards proving the existence of a suffix *-go-* in pre-ethnic Indo-Germanic.

Skr. *ārbha-ga-s* 'youthful' beside *ārbha-s* *arbha-kā-s* 'small, young', *śṛṅga-m* 'horn' may be regarded as derived from a form **śṛṅga-* Goth. *haurn*, just as O.H.G. *scincha* f. 'hollow

of the thigh, shank': *scina* 'leg-splint', Dan. *manke*: O.H.G. *mana* 'mane' (Kluge, Festgruss an Böhrling, 1888, p. 60).

Armen. *krun-k* 'crane': O.H.G. *chranu-h* A.S. *cornu-c* 'crane' beside A.S. *cran* Gr. *γέγραφο-ς* 'crane'. Also *srn-kun-k* (gen. *sruni-c*) pl. 'shinbones, calves'? Armen. *-k* however also represents Idg. *q*.

In Germanic *-ka-* is a common suffix. With *chranuh* we may compare certain other names of birds, such as Goth. *ahak-s* 'dove' O.H.G. *habuh* A.S. *hafoc* 'hawk', which resemble Greek bird-names in *-γ-*, like *κόρυς* (see Bugge, Paul-Braune's Beitr. XII 424 f.). In other words it has generally more or less of a diminutival force, as O.H.G. *armihha* 'paupercula', *fulihha* 'she-foal', *snurihha* 'little daughter-in-law', and adjectives like O.H.G. *altih* 'old' O.Sax. *luttic* O.Fries. *litik* 'small' (cp. Skr. *ārbha-ga-s*). By the side of the O.H.G. *scincha* mentioned on p. 276 should no doubt be placed O.H.G. *zinko* 'tooth, prong', which is connected with Mid.H.G. *zint* O.Icel. *tind-r*, ground-form **dend-go-*, from the stem **dent-* 'tooth'.

In Balto-Slavonic also *-go-* is fairly frequent; but this may equally well represent Idg. *-gho-*. Lith. *isz-ei-gā* or *isz-ei-ga* 'exit' beside *isz-eiti* 'to go out', O.C.Sl. *slu-ga* 'servant' from *✓kley-* 'hear' (*slu-tije*, *slovo* etc.), *stru-ga* 'current, ship' from *✓srey-* 'flow' (*stru-ja*, *o-strovū* etc.). Lith. *melāg-i-s* m. *melāg-ė* f. 'liar', compare *-in-ga-s* in such words as *varginga-s* 'pitiful, miserable' from *vaŕga-s* 'misery' (and *-in-ka-s* § 68 p. 271). O.C.Sl. *roz-ga* 'twig' beside *rozū razū* 'dis-'. O.C.Sl. *maq-ě* 'man' for *-g-je*, cp. Skr. *mānu-* Goth. *mann-* 'human being, man'. Lith. *ketvėr-g-i-s* adj. 'of four years', *trei-g-ỹ-s* 'of three years' and the like, O.C.Sl. *četeri-gū* Russ. *četver-g* 'Thursday'.

Remark. We must remember that the suffix *-go-* may have been developed from *-go-* in the protoethnic period. See I § 469, 7 p. 346. By the side of *-go-* we may perhaps recognise a similar suffix *-gu-* Gr. *πρῆσ-γυ-ς* *πρῆσ-βυ-ς* 'old' and in Lith. *imo-gū-s* 'human being'; *πρῆσ-γυ-ς* would stand beside Lat. *pris-co-* (cp. § 135) as Skr. *ārbha-ga-* beside *ārbha-kā-* and as O.H.G. *zinko* beside A.S. *tusc* or *tusk* § 88 p. 266. A different explanation of *-γυ-* *-βυ-* is given by Bezzenberger in his Beitr. IV 345.

II. Suffixes in *-i*.

§ 92. In the *i*-suffixes we have a triple Ablaut: *i*, *eĭ*, *oi* (*e*-series, I § 311—314). *i* e. g. in nom. and acc. sing. masc. fem. *-i-s* *-i-m*; *eĭ* e. g. in nom. pl. masc. fem. *-eĭ-es*; *oi* in gen. sing. *-oi-s*. We have not enough evidence to determine exactly the connexion between these grades of Ablaut and the varying conditions of Accent in the original declension.

In the proethnic period the *i*-stems were masculine, feminine and neuter. The first two had originally the same declension. Differences only arose after the separation of the languages, e. g. Skr. acc. pl. *āvīn* m. *āvīṣ* f. 'oves'.

i-stems often pass into the inflexion of the *-ī*: *-iē*-stems (§ 109), and into that of the monosyllabic *-ī*: *-iī*-stems (§ 109 Remark 2).

§ 93. The Suffix *-i-*. This was always a primary suffix. It is secondary only in nouns originally belonging to other declensions which have been transferred to the inflexion of the *i*-stems. The change of declension is due sometimes to a mere association of similar forms which leaves the meaning unaltered, as in Lat. *nāv-i-s* *nāv-i-um* *nāv-i-bus*¹⁾ (contrast Skr. *nāu-ṣ* *nāv-ām* *nāu-bhyās*); sometimes it denotes a change of meaning, the new signification being taken from that of other *i*-suffixes (as *-ti-* *-ni-*), as in O.C.Sl. *žestoč-ī* 'hardness' from *žestokū* 'hard'.

-i- as a primary suffix is found in substantives and adjectives. The substantives are most commonly masculine and feminine, and they may be either abstract or concrete.

Indo-Germanic. Substantives.

Masculine and Feminine **ou-i-s* 'sheep': Skr. *āvi-ṣ* m. f. (instead of **āvi-ṣ* on the analogy of the cases which began with *avy-*? see I § 78 p. 69 f.), Gr. *ōi-ς* *oi-ς* m. f., Lat. *ovi-s* m. f., O.H.G. *ou* f., Lith. *avī-s* f. (O.C.Sl. *ovl-ca* § 88 p. 269). Skr. *āh-i-ṣ* m. Avest. *ažiš* m. 'snake, dragon', Armen. *iž* (gen. *iž-i*) 'viper', Lat.

1) For the transference of *-ī*-stems into the *i*-declension, see § 109 Rem. 1.

angu-i-s m. f. (O.Ir. *esc-ung* 'eel', a compound with *esc* 'swamp'), Lith. *ang-i-s* f. 'adder'; cp. also Gr. *ἔχις* m. f. 'adder, viper' *ὄφις* m. 'snake, dragon'. Avest. *er'z-i-š* Gr. *ὄφις* m. 'testicle'. **us-i-s* m. 'sword': Skr. *asi-š* Lat. *ēnsi-s*. Skr. *-jan-i-š* *jān-i-š* Avest. *jaini-š* f. 'woman', Goth. *qēns* (stem *qēn-i-*) f. 'woman', beside Skr. *gn-d-* etc., see § 60 p. 111.

Neut. **ogi-* 'eye': Armen. *ač-kē* (gen. *ačac*) pl., Gr. *ὄσσε* for **ok'-i-e* du. n. (Att. *το-ορις* must have arisen through a fusion of *ορι-* = **ogi-* and *ορι-* = **ogi-*), in Gothic in *and-angi-ba* adv. 'coming into sight, openly' (for the *du* cp. I § 444 Rem. 3 p. 331), Lith. *ak-i-s* f., O.C.Sl. *oči* du.; add Skr. *ākṣi* n. There were a few other proethnic neuters, as O.C.Sl. *uš-i* 'ears'. But only a part of the cases were originally taken from these stems, the rest were formed from stems in *-en-* (cp. e. g. Skr. *akṣn-d* (instr.) beside *ākṣ-i* etc., § 114). In several languages, however, the *i*-declension was carried through all the cases and the gender was changed. In others however the *i*-inflexion remained defective. Cp. § 114 and Joh. Schmidt, Kuhn's Ztschr. XXVI 16 ff.

There appears to be no one adjectival stem which is found simultaneously in more than one language. Here however we must notice **tr-i-* 'three' (cp. Skr. *ty-tīya-* 'tertius' etc.): Skr. *trāy-as* loc. *tri-śū*, Armen. *ero-kē* instr. *eri-v-kē* (I § 263 p. 214), Gr. *τρεῖς* *τρι-σί*, Lat. *trēs* *tri-bus* O.Ir. *trī* dat. *tri-b*, Goth. *þreis* dat. *þri-m*, Lith. *trīs* loc. *tri-sè* O.C.Sl. *trīj-e* *trij-e* loc. *trī-chū*.

Aryan. Substantives.

Masculine and Feminine. The suffix is especially used to form *nomina agentis* (m.) and abstract verbal substantives (far more commonly f. than m.). Skr. *v-i-š* Avest. *v-i-š* m. 'bird': Lat. *av-i-s* (the loss of the root-syllable in Sanskrit is a trace of the Ablaut of the original declension). Skr. *kav-i-š* 'sage' Avest. *kav-i-š* m. 'king'. Skr. *gir-i-š* Avest. *gai-ri-š* m. 'mountain' (should we connect it with *gurú-* 'heavy'?) Skr. *va-vr-i-š* m. 'husk, covering' Avest. *vaoiri-* (cp. I § 160 p. 144) in *us-vaoiri-š* 'shelled, without shell'. Skr. *fṣ-i-š* m. 'singer, sage', *kir-i-š* m. 'singer of praises', *arc-i-š* m. 'beam', *dhvan-i-š* m. 'tone, sound', *nidh-i-š* m. 'establish-

ment, store, treasure' (*nī-dhā-*); *rūc-i-ṣ* f. 'gleam, light', *kyṣ-i-ṣ* f. 'ploughing', *rōp-i-ṣ* f. 'violent pain', *grāh-i-ṣ* f. 'seizure', *nābh-i-ṣ* f. 'middle'. Avest. *vaçid-i-ṣ* m. 'announcer', *vair-i-ṣ* m. 'canal, pond'; *baoid-i-ṣ* f. 'smell, perfume' *vaid-i-ṣ* 'flowing, stream'.

The dative of the *nomina actionis* is used as an infinitive in Vedic and Avestic, e. g. Ved. *dṛśáyē* 'for seeing', *yudháyē* 'for fighting', Avest. *savayōi* 'to use' (cp. Bartholomae, Kuhn's Ztschr. XXVIII 20).

Neuters. Skr. *ākṣi-* Avest. *āši-* 'eye', see above p. 279. Skr. *āsthi-* 'bone', *dādhi-* 'curds'. Avest. *uši-* 'understanding, thought'.

Adjectives. Skr. *hār-i-ṣ* Avest. *zairi-ṣ* 'golden yellow'. Skr. *śúc-i-ṣ* 'shining, pure', *grbh-i-ṣ* 'containing in oneself', *kēp-i-ṣ* 'trembling', *māh-i-ṣ* 'great'; often in reduplicated forms, as *cā-kr-i-ṣ* 'making', *dā-dh-i-ṣ* 'bestowing', *tā-tur-i-ṣ* 'overcoming', *ba-bhr-i-ṣ* 'carrying', *da-d-i-ṣ* 'giving', *sā-sah-t-ṣ* 'conquering, victorious'. Avest. *dars-i-ṣ* 'violent, mighty' cp. Skr. *dā-dhṛṣ-i-ṣ* 'courageous, bold', Avest. *dā-das-i-ṣ* 'biting'.

We find a class of words transferred to the *i*-declension in order to denote relation of any kind to the original word. In Sanskrit they generally imply origin. The initial syllable has the *vridhhi* strengthening regularly in Sanskrit, and often in Iranian. Skr. *sārath-i-ṣ* 'charioteer' from *sa-rātha-s* 'riding in the same chariot', *pāúrukutsi-ṣ* 'descendant, son of *purukútsu-s*'. Avest. *mazdayasni-ṣ* 'belonging to the worshippers of Mazda', from *mazda-yasna-* 'one who worships Mazda' *vār'prayni-ṣ* 'victorious' from *ver'pru-jan-* 'victor', *daštayāni-ṣ* 'son of *daš-tayāna-*'; O.Pers. *pātishuvari-ṣ* 'a man from Patishuvar'. It is difficult to say on what model this class of forms was made, cp. Lat. *decemjugi-s* 'and the like' (p. 281). Compare the *vridhhi*-formations in -a- § 60 p. 112 f.

Armenian. *iš* (gen. *iš-i*) 'viper': Skr. *āh-i-ṣ* etc., see p. 278 above. *aic* (gen. *aic-i*) 'goat': Gr. *αἰγί-* in *αἰγί-βορο-* 'pasturing goats'. From old neuter forms are derived *ač-k* pl. 'eyes' (see p. 279 above) and *sirt* (gen. *srt-i*) 'heart': Lith. *szird-i-s* 'heart' beside Goth. *hairtō*.

Greek. Here it is not common. Substantives. Masculine and Feminine. *ō-i-s* m. f., *ēχ-i-s* m. f. *ōq-i-s* m., see above p. 278 f. *τροχ-i-s* m. 'runner', *στροφ-i-s* 'adroit, sly fellow', *κόρ-i-s* m. 'cunex', *ἐρ-i-s* f. 'strife': Skr. *ár-i-š* 'enemy'; *πάρ-i-s* 'heifer, maiden', *ράχ-i-s* f. 'backbone, back', *ρόπ-i-s* f. 'ship's keel', *μῆν-i-s* f. 'wrath'. There remains one original neuter, *ōsse*, see p. 279 above, whilst all the other proethnic neuters of this class were driven out of use by new formations.

The Adjective *τροφ-i-s* 'thick, fat, strong' was no doubt originally a substantive, 'thick, strong appearance'.

Italic. Substantives. Masculine and Feminine. Lat. *ov-i-s* m. f., Umbr. *ovi* acc. 'oves': Skr. *āv-i-š* etc., see p. 279 above. Lat. *av-i-s* f., Umbr. *avif* acc. 'aves': Skr. *v-i-š* 'bird'. Lat. *ax-i-s* m.: Lith. *asz-i-s* O.C.Sl. *os-ŕ* 'axle'; *torris* m. (*ters-*), *orb-i-s* m., *corb-i-s* m. f., *crat-i-s* f.; *ap-i-s* f., *trud-i-s* f., *scob-i-s* f., *sit-i-s* f., *rap-i-s* f. Osc. *slagim* 'regionem'.

Neuters. Lat. *mar-e*: O.Ir. *muir* n. O.H.G. *meri* n. (perhaps however the Idg. form is **mā-ri*, cp. Gr. *ἰδ-μῖ*); *sal-e* (stem *sal-i-*, also m.): Armen. *ալ* (gen. *ալ-ի*) 'salt', Gr. *άλ-* in *άλ-πόρφυρο-ς* 'sea-purple', O.C.Sl. *sol-ŕ* f. 'salt'; *conclav-e*, *praesaep-e* (also *praesaep-i-s* f.). *aur-i-s* too was originally neut.: Mid.Ir. *au* *ō*, dat. pl. *auib*, O.C.Sl. *uš-i* du., Lith. *aus-i-s*.

Adjectives: *rud-i-s*, *jug-i-s*, *dulc-i-s*, *grand-i-s*, *turp-i-s*.

In Latin the *i*-declension was invaded by a large number of words which did not belong to it originally, as *ped-i-bus*, *nāv-i-bus* *nāv-i-um* *nāv-i-s*, *juven-i-s*. This is especially note-worthy in adjectives, and particularly in compound words. In these the *-i-* often seems to be merely a sign of their adjectival character. *simili-s* 'like': Gr. *ὅμαλό-ς* 'even', *humi-li-s*: Gr. *χαμαλό-ς* 'low', see § 76 p. 202 f. *in-ermi-s* (also *in-ermu-s*) from *arma* pl., *ex-somni-s* from *somnu-s*, *im-belli-s* from *bellu-m*, *im-berbi-s* (also *im-berbu-s*) from *barba*, *multi-formi-s* from *forma*, *bi-corni-s* from *cornu*. We have examples of a similar transference in other languages; with the change in *inermi-s* etc. compare especially the parallel change in Irish.

The proethnic variation between *-tat-* and *-tati-* (*civitat-um*

and *civitali-um*), *noct-* and *nocti-* and the like must have been an important factor in enlarging the *i*-declension.

Old Irish. *aird* m. or f. 'point at the corner or end': Gr. *ἀρδ-ς* f. 'arrow-point, sting'. *aig* f. 'ice'. *muir* n. 'sea' (Gall. *Mori-tasgu-s*): Lat. *mare* n. O.H.G. *meri* n. (though the Idg. form was perhaps **mā-rī*); *gein* n. 'birth', *guin* n. 'wound', *buaid* n. 'victory'.

air-dirc 'famed' *ē-cndirc* 'absent': cp. Skr. *drś-t-ṣ* 'a seeing'; *maith* 'good' (Gall. *Mati-dounu-s*), *tais* 'soft, gentle' (Gall. *Taxi-magulu-s*), *tin* 'tender' (Gall. *Teni-genonia*.)

Adjectives, especially compound adjectives, frequently passed over to the *i*-declension; as *ē-nirt* 'strengthless, weak' from *nert* 'strength', *so-choisc* 'docibilis' from *cosc* 'an instructing', *ess-amin* 'fearless' from *omun* 'fear' (cp. Gall. *Ex-obnu-s* *Ex-omnu-s*). Also substantives, as *samail* 'likeness, picture' and therefore also its derivative *co-smil* 'like'. The same may be seen in Latin (p. 281).

Germanic. Substantives. Masculine and Feminine. The verbal abstract nouns are much more commonly m. than f. Goth. *baúr* A.S. *byre* m. 'son'. Goth. *ndu-s* (acc. pl. *nav-i-nis*) m. 'dead man'; O.C.Sl. *nav-i* 'mortuus'. O.H.G. *wein-i* m. 'friend': Skr. *vasu-vāni-ṣ* 'desiring riches' *vāni-ṣ* 'desire, longing'. O.Icel. *kon-r* m. 'one who belongs to a family, relative', *elg-r* m. 'elk'. Goth. *balg-s* m. 'leather bottle, skin'. Goth. *hug-s* O.Sax. *hug-i* m. 'thought, spirit' pr. Germ. **hug-i-s*, Goth. *gum-s* O.Sax. *kum-i* O.H.G. *chum-i* m. 'a coming', Goth. *mun-s* O.Icel. *mun-r* m. 'view', Goth. *slah-s* O.Sax. *sleg-i* m. 'blow' (the difference between the *-h-* and the *-g-* corresponds to the original variation of accent in the different cases of the same declension), O.H.G. *biz* O.Sax. *bit-i* m. 'bite', O.H.G. *fang* A.S. *fenz* O.Icel. *feng-r* m. 'capture'. Goth. *gēn-s* f. 'woman': Skr. *-jāni-ṣ*. Goth. *vēn-s* f. 'hope' O.H.G. *wān* m. 'faith, hope', unless it is to be analysed as **wē-(e)ni-* and so belongs to § 96 (p. 288). O.H.G. *chur-i* f. 'choice'. O.H.G. *chur-i* f. 'choice'. O.H.G. *wurt* f. O.Icel. *Urd-r* f. 'fate' pr. Germ. **yurd-i-s*. For the treatment of the nominative ending *-i-s* in these forms see I § 660, 1 p. 514, § 661, 2 p. 517. Neut.

O.H.G. *meri* 'sea' (cp. Goth. *mari-sáiv-s*): Lat. *mare* n. O.Ir. *muir* n. (though perhaps the Idg. form was **mə-rí*).

Adjectival *i*-stems were confused with *jo*-stems in pro-ethnic and later Germanic.

Balto-Slavonic. Substantives. Masculines are rare. Lith. *vag-i-s* 'thief'; O.C.Sl. *nav-ī* 'dead': Goth. *náu-s* 'dead man' (see above); O.C.Sl. *medv-ěd-ī* 'bear' ('honey-eater'), cp. *jad-ī* f. 'food'; *glad-ī* 'hunger'. The feminine is more frequent. Lith. *asz-i-s* O.C.Sl. *os-ī* 'axle': Lat. *ax-i-s*. Lith. *pil-i-s* 'stronghold, castle': cp. Skr. *pur-i-ś* 'town', though these two words may be independent extensions of an orig. stem **pŕl-*. Lith. *āt-ils-i-s* 'repose, ease', *rūd-i-s* 'rust'. O.C.Sl. *lŕž-ī* 'lie': O.H.G. *lug* A.S. *lyze* (pr. Germ. **luzi-*) m. 'lie'. O.C.Sl. *věd-ī* 'knowledge': Avest. *vəpīd-īs* 'herald'. O.C.Sl. *sīc-ī* 'urine', *o-stež-ī* 'clothing', *chot-ī* 'desire, craving', *blęd-ī* 'error, deceit', *rěč-ī* 'speech', *vodo-tečī vodo-točī* 'water-course, channel'. The following imply old neuter forms: O.C.Sl. du. *oči* 'eyes' (cp. Skr. *akṣī*) and *uši* 'ears', Lith. *akì-s* f. and *ausì-s* f., see p. 281.

Adjectives in *-i-* are not found in the historical period of Lithuanian, so that Lith. *dīdī-s* 'large' loc. *didi-mė* cannot be classed here. The word was no doubt a substantive originally, like Gr. *τόπος*-s (see above p. 281). In Slavonic too the adjectives in *-i-* have died out. Possibly however they are represented by indeclinable forms in *-ī*, such as O.C.Sl. *is-plūnī* beside *plūnū* 'full' *sugubī* beside *sugubū* 'doubled', *svobodī* 'free', which Mahlow, (*Die langen Vokale*, p. 121) compares with Lat. *in-ermi-s* O.Ir. *ē-nirt* (p. 281 f.); see however Leskien, *Handbuch*² p. 72 f. 94 f.

In Balto-Slavonic, as in Latin, the forms of the *i*-declension invaded other classes of stems. E. g. dat. pl. Lith. *akmen-i-ms* O.C.Sl. *kamen-ī-mū* (nom. sing. Lith. *ak-mū* O.C.Sl. *kamy* 'stone') like Lat. *homin-i-bus*, Lith. *moter-i-ms* O.C.Sl. *mater-ī-mū* (nom. sing. Lith. *mótė* 'woman' O.C.Sl. *mati* 'mother') like Lat. *matr-i-bus*, Lith. *debes-i-ms* O.C.Sl. *nebes-ī-mū* (nom. sing. Lith. *debes-ì-s* m. f. 'cloud' O.C.Sl. *nebo* n. 'heaven') like Lat. *gener-i-bus*. Many words were thus transferred entirely, or almost entirely, to this declension, as Lith. *dant-i-s* f. 'tooth' (gen. pl. *dant-ū*), *žas-i-s*

f. 'goose' (gen. pl. *žas-ŭ*), *debes-i-s*; O.C.Sl. *krŭv-ŭ* f. 'blood' (gen. sing. *krŭv-e*), *kamen-ŭ* beside *kamy*, *vŭs-ŭ* 'village' (Skr. *viś-*).

In Slavonic *-i-* is a secondary suffix in feminine abstract nouns like *žestocŭ* 'hardness', from *žestokŭ* 'hard', *zelenŭ* 'viriditas', from *zelenŭ* 'viridis', *zŭlŭ* 'wickedness', from *zŭlŭ* 'wicked', *toplŭ* 'warmth', from *toplŭ* 'warm' (cp. § 98). The type for these new formations was set by such pairs of forms as *da-nŭ* 'gift' and *da-nŭ* 'given', *bra-nŭ* 'fight' and *bra-nŭ* 'fought', *pe-tŭ* 'fivefold character, five' and *pe-tŭ* 'fifth'.

§ 94. The Suffixes *-ni-* (*-yni-*) and *-eni-* (*-oni-*).¹⁾

The two forms are related in the same way as *-no-* and *-eno-*. Hence we analyse e. g. **dōni-s* (Lith. *dūni-s* O.C.Sl. *danŭ* 'gift') as **dō+eni-*. See § 65 p. 138.

These suffixes appear to have been always primary.

Amongst the substantives formed with *-ni-* *-eni-*, the verbal abstract nouns are a prominent class, widely represented in Aryan, Germanic and Balto-Slavonic. These stand in the same relation to the participial suffixes *-no-* *-eno-* (*-ono-*) as the noun suffix *-ti-*, which also forms verbal abstract nouns (§ 100), to the participial suffix *-to-* (§ 79 p. 218): e. g. Skr. *lū-ni-ś* 'a tearing away': *lū-na-s* 'torn away' = *hū-ti-ś* 'call': *hū-ta-s* 'called'. And it is certainly not an accident that these nouns in *-ni-* are most common in the languages in which the *no-* stems occupy a prominent place among the forms of the infinitive.

In Germanic and Balto-Slavonic we often find *-sni-* instead of *-ni-*. The origin of the *-s-* is not quite clear. Possibly it should be sought in forms like **leyqs-ni-s* 'gleam' (Avest. *raorśni-s*), cp. *-s-no-* § 66 p. 140 f. With Lith. *deksnŭ-s* 'burnt patch of ground' cp. O.C.Sl. *žestŭ* for **gek-s-to-* p. 79 p. 237.

Remark. Sometimes it is not easy to decide whether in any particular word we have this suffix or an *en-* stem extended by *-i-* (i. e. transferred to the *i-* declension). The latter is certainly the case e. g. in Skr. *śun-i-ś* Avest. *sun-i-ś* Lith. *szun-i-s* Pruss. *sun-i-s* 'dog' beside Skr. *śrā* gen. *śrān-as*,

¹⁾ H. Ebel, Die Abstractsuffixe *-ni* und *-eni* (in Gothic), Kuhn's Ztschr. V 302 ff. Losch, Die mit dem Suffix *ni* gebildeten Verbalabstracta im Gotischen, Germania XXXII 223 ff.

Lat. *carn-i-s* beside *carū caru-is*, O.C.Sl. *dñ-i* 'day' *jelen-i* 'stag' beside gen. sing. *dñ-e jelen-e*, *srišen-i* beside Lith. *szirsazū*, gen. *szirszeñs*, 'hornet, gadfly'. Perhaps also in Skr. *erṣṇi-ś* *erṣṇi-ś* 'male, strong, mighty' *erṣṇi-ś* m. 'ram' Avest. *varšni-š* 'ram' beside Skr. *erṣṇi-* 'male', Skr. *preñi-ś* 'full of love' beside instr. *preñ-ā* 'through love, through affection', Gr. *ἀρνις* (pl. *ἀρνιες*) 'fowl' O.H.G. *arn* (pl. *erni*) 'eagle' beside Goth. *ara*, gen. *arins* 'eagle'. Cp. § 65 Rem. p. 139.

§ 95. I. *-ni-* (*-yni-*).

Indo-Germanic. Skr. *ag-ni-ś* m. Lat. *ig-ni-s* m. Lith. *ug-ni-s* f. O.C.Sl. *og-ni* m. 'fire'; the relation of the different root-vowels is obscure. Skr. *śrō-ñi-ś* m. f. 'hinder parts, hip', Lat. *clū-ni-s* m. f., O.Icel. *hlan-n* f. 'hip-bone, hinder-part', Lith. *szlau-ni-s* f. 'hip, upper part of the thigh, shaft-bar (of a carriage)'; how is this related to Gr. *σάκρον*-ς 'os sacrum'? (cp. the Author, Zum heut. Stand der Sprachwiss. 1885, p. 70 f., Holthausen, Paul-Br. Beitr. XIII 590). **lū-ni-s* f. 'a loosing, tearing loose': Skr. *lū-ni-ś* 'a tearing loose, cutting off', Goth. *lū-n-s* 'means of loosing, ransom' (von Bahder, Verbalabstr. 81, Osthoff, Morph. Unt. IV 121). Avest. *rašni-s* 'truth' pr. Ar. **raṣ-niṣ* (I § 403 p. 298). Goth. *ga-rēh-sn-s* f. 'intent, plan', *✓reḡ-* (Avest. *rāzayeiti* 'he arranges'). Skr. *śrēni-* 'light, pure' (in *śrēni-dant-* 'with bright teeth'), Goth. *hrái-n-s* 'pure'; cp. also O.C.Sl. *srě-nū* 'white' (Kluge gives a different explanation, Paul-Br. Beitr. VIII 525).

Aryan. Skr. *śrō-ñi-ś* m. f. Avest. *srāo-ni-š* f. 'hinder parts'. Lat. *clū-ni-s* etc.; see above. Skr. *vāh-ni-ś* m. 'beast of draught', *yō-ni-ś* m. 'lap, womb', *ghī-ni-ś* m. 'heat, sunshine'. Skr. *jūr-ni-ś* 'glow', *sy-ni-ś* *sf-ni-ś* 'sickle', *mē-ni-ś* f. 'offensive weapon, missile', *śrē-ni-ś* f. 'row, line', *gīr-ni-ś* f. 'a swallowing'. Avest. *raoxš-ni-š* f. 'gleam, brightness', *fšao-ni-š* f. probably 'riches, food, nourishment'.

Adjectives. Skr. *śrēni-* 'bright, pure', see above, *tār-ni-ś* 'hastening', *bhār-ni-ś* 'hasty, fiery', *pśś-ni-ś* 'spotted, variegated', Avest. *raoxš-ni-š* 'gleaming, clear'.

The Aryan suffix *-ani-* may in some words be referred to *-yni-*; perhaps in *kšip-ant-ś* f. 'blow' and other words in *-ani-*.

Compare Skr. *-dna-* from *-ynó-* § 66 p. 142, and *-anú-* for *-ynú-* § 106.

Armenian. *srun-k̄* (gen. *sruni-ç*) pl. 'shinbones, calves', compared with Lat. *crūs*.

Greek. Here the suffix is extremely rare. For *κλώνι-ç* see p. 285. *εὐ-νι-ç* 'bereft, muled' is a certain example, cp. Skr. *ā-ni-s* 'deficient in something' Goth. *v-an-s* 'absent, lacking'. But *ἄρνι-ç* *ἄρνι-ç* 'ploughshare' (cp. Solmsen, Kuhn's Zeitschr. XXIX 81), *σπάνι-ç* 'rarity, want' and one or two others are very doubtful.

Italic. Lat. *Fōnēs* 'dei silvestres' (Gloss.) beside *Faunus*, Umbr. *fons* (pl. *foner*) 'propitius, favens', cp. *far-eō*; the word seems to have been originally a substantive, meaning 'favour'. Lat. *īg-ni-s* m.: Skr. *ag-ni-š* etc. see p. 285. *pēni-s* m. f. for **pes-ni-s* beside Skr. *pās-as* Gr. *πέος* n. 'penis' (I § 570 p. 427). *amni-s* m. f. for **ab-ni-s*, compared with O.Ir. *abann* 'stream' (I § 511 p. 375). *fāni-s* m. f., *fīni-s* m. f., *crīni-s* m. f.

It is not clear how far the Adjectives in *-ni-* were brought into this class of stems merely through a secondary change of declension, cp. § 93 p. 281. *com-moini-s* *com-mūni-s* (Osc. *mūnikad* abl. 'communi' see § 87 p. 261) corresponds to Goth. *ga-main-s* 'common' pr. Germ. **ga-maini-z*. *omni-s* for **op-ni-s*, beside *op-s* (cp. Goth. *all-s* § 66 p. 147). *ag-ni-s*, *īmi-s*, *mūni-s*, *im-mūni-s*, *is-ōni-s* and others. It must not be forgotten that the uncompounded words may have been originally substantives.

Old Irish. *raia* 'a harrying, raid' for **ra-ag-ni-* or **ra-af-er-*, similarly *imn-s* 'a driving, riding' passing into the analogy of the *t*-stems, see Stokes, Kuhn's Ztschr. XXVIII 290, from **raf-ager-*, cp. I § 523 p. 880. *imn* 'harvesting' for **hamp-er-*, beside *hamp-an* 'I gather, make harvest'. *cluin* 'meadow, mead'. *-ni-* may be contained in O.Ir. *colann* (gen. *colann*) 'corpus, etc.' Mod. Cym. *colan* & Mod. Cym. *colan* *colan*, which point to **hamp-* or **hamp-ni-*, cp. § 117 Rem. 3a.

Germanic. The Substantives in *-ni-* and *-ni-* are femi-

nine and mostly abstract. O.Icel. *hlau-n* 'hip-bone': Skr. *śrō-ni-ś* etc.; see above, p. 285. Goth. *siun-s* 'looking, power of sight, visage, appearance' pr. Germ. **si(3)u-ni-s*, beside Goth. *sathvan* 'to see', √ *seq-*; see I § 441 p. 327 f., § 444 c p. 330. Goth. *anda-viz-n-s* 'sustenance, support' *vátla-viz-n-s* 'welfare, good condition' from *visan*. *sōk-n-s* 'disputed question', *táik-n-s* 'notice, token' √ *deik-* *deiġ-*, *dáu-n-s* 'vapour, smell'. Goth. *ana-busn-s* 'bidding, charge, command' for **-butni-*, beside *ana-biudan*, *us-beisn-s* 'expectation, patience' for **-būtni-*, beside *us-beidan* (I § 552 p. 404), *ga-rēh-sn-s* 'intent, plan' (cp. Avest. *raś-ni-* p. 285), *rōh-sn-s* 'court, courtyard'.

The adjectival *-ni-* corresponds to the adjectival *-i-* (§ 93 p. 283), and, like *-i-*, was confused with the *īo*-declension. Goth. *hráin-s* O.Sax. *hrēni* 'pure': Skr. *śrēni-* 'bright, pure'; see p. 285 above. Goth. *ga-máin-s* 'common': Lat. *com-moini-s* *com-māni-s*, see p. 286. Goth. *ana-siun-s* 'visible', *skáun-s* 'beautiful' ('noticeable, worth looking at' beside O.H.G. *scouweōn*), *ar-ni-ba* adv. 'safely, heedfully'.

In Balto-Slavonic we find only substantives, which in both branches are almost exclusively feminine, often with *s* or (in Slav.) *z* prefixed (*-sni-*, *-zni-*).

Lith. *ug-ni-s* f. O.C.Sl. *og-nŕ* m. (the only masc.) 'fire': Skr. *ag-ni-ś* etc., see above p. 285. Lith. *bar-ni-s* f. 'quarrel' O.C.Sl. *bra-nŕ* f. 'battle'. Lith. *kul-ni-s* f. 'heel', *vil-ni-s* f. 'wave', *szak-ni-s* f. 'root', *pus-ni-s* f. 'snow-drift', *krós-ni-s* 'stove, oven', *dek-snŕ-s* f. 'burnt patch of ground' *lup-snŕ-s* (and *lupsznŕ-s* f. 'shell peeled off', *žink-snŕ-s* f. 'step'; the forms are frequently transferred to the *īo*-declension (masc.), as *žinksnŕ-s* gen. *žinksnio* = *žinksnŕ-s*. O.C.Sl. *strŕ-nŕ* 'stem' *stŕg-nŕ* 'way, road', *po-jas-nŕ* 'girth', *pri-kaz-nŕ* 'tale, history, example', *sē-nŕ* 'shade' (no doubt to be compared with Skr. *chay-d* 'shade', I § 393 p. 293 f., § 414 Rem. p. 303 f.), *pě-snŕ* 'song', *kŕ-znŕ* 'deceit', *žŕ-znŕ* 'life'.

§ 96. 2. *-eni-* (*-oni-*).

Indo-Germanic. **bhāni-s*: Armen. *ban* (gen. *banŕ*) 'λόγος', A.S. *bēn* O.Icel. *bōn bām* f. 'prayer' pr. Germ. **bōni-z*, O.C.Sl. *basnŕ* f. 'fable, spell' (the *s* is a later insertion). We

may place here, but with more hesitation, Goth. *as-an-s* f. 'harvest, summer' (cp. *asnei-s* O.H.G. *esni* 'day-labourer'), Pruss. *ass-ant-s* 'autumn' O.C.Sl. *jes-enĩ* f. 'autumn'.

Aryan. Skr. *-āni-* beside *-ant-* (is the latter for *-ant-*? see § 95 p. 285 f.). *iṣ-āni-ṣ* f. 'impulse, motive' *śar-āni-ṣ* 'injury, transgression', *aś-āni-ṣ* f. 'missile'. *car-āni-ṣ* 'mobile', *cakṣ-āni-ṣ* 'brightener, illuminator', *ruruṣ-āni-ṣ* 'able or willing to destroy'. Skr. *sarva-jyāni-ṣ* f. 'complete ruin' Avest. *zyāni-ṣ* f. 'harm', Skr. *hani-ṣ* f. 'abandonment, decrease, loss', *glāni-ṣ* *glāni-ṣ* f. 'relaxation, discouragement'.

Armenian. *ban* 'λόγος; A.S. *bēn* etc., see above.

Italic. Lat. *pāni-s* m., also *pāne* n., beside *pā-bulu-m*.

Germanic. Goth. *as-an-s* f. 'harvest, summer'?, see above. A.S. *bēn* O.Icel. *bon* *bön* f. 'prayer': Armen. *ban* etc., see above. The comparison of Goth. *vēn-s* 'hope' with O.H.G. *wār* (Bremer, Paul-Braune's Beitr. XI 274) is still uncertain; see § 93 p. 282. The suffix was fertile in forming feminine abstracts connected with weak verbs and derived from the present stem; these words end in *-āni-* *-ōni-* *-aini-*, as Goth. *lāisein-s* 'instruction' from *lāisjan* 'to instruct', *laþōn-s* 'invitation' from *laþōn* 'to invite', *þulāin-s* 'patience, endurance' from *þulan* 'to endure'. The form of the suffix was *-eni-* (as opposed to *-ono-* in the infinitive, which appears in *lāisjan* and *þulan*): *lāisain-s* = ground-form **loisei-eni-s*, pr. Germ. *-ij-ini-*, cp. 3. sing. Goth. *lāiseiþ*, *þulāin-s* = ground-form **tllēi-eni-s* pr. Germ. *-ēi-ini-*, cp. 3. sing. *þulāiþ*, *laþōn-s* like 3. sing. *laþōþ*; see I § 142 p. 127. These abstract forms were very numerous even in protoethnic Germanic; but the separate Germanic languages differ in the extent to which they made use of the established types. In Gothic the three methods of formation were in full use together: the form in *-ein-s* was the most, that in *-ōn-s* the least common; further examples are *af-lagein-s* 'remission', *ga-hráinein-s* 'purification', *frijōn-s* 'caress, kiss', *þahāin-s* 'silence'. But in High German the only forms which appear are those in *-ini-*, and these are very numerous; but they were phonetically modified by confusion with secondary abstract nouns in *-in-* (§ 115), as O.H.G. *toufin* and *toufē*

'baptism' = Goth. *dāuþein-s*, *mendin mendi* 'joy', *restin resti* 'rest, repose'.

Balto-Slavonic. Pruss. *ass-ani-s* O.C.Sl. *jes-enŭ* f. 'autumn'?, see p. 288 above. Words in which the suffix was contracted with the vowel ending of the stem to which it was added, often show an inserted *s* (*z*). Lith. *dūni-s dūsi-s* f. O.C.Sl. *danŭ* f. 'gift'. O.C.Sl. *basnŭ* f. 'fable, spell': Armen. *ban* etc., see p. 287 above, *prē-stanŭ* f. 'omission' from *prē-stati* 'to omit, cease'; *na-dēznŭ* 'hope' from *dēti* 'ponere'. These nouns are also formed from derivative verbs, and are based upon the stem of the infinitive; as *bojaznŭ* f. 'fear' (*bojati se*), *kajaznŭ* f. 'repentance' (*kajati se*), *prijaznŭ prijaznŭ* f. 'love, friendship' (*prijati prijati*), *bolēznŭ* f. 'pain, sickness' (*bolēti*). Compare Pruss. *biāsna-n* acc. 'fear' beside *biā-lwei* 'to fear', *eb-signāsna-n* acc. 'blessing' beside *be-signāt-s* part. 'blessed'.

§ 97. The Suffix *-mi-*. There are a few original substantives in which *-mi-* is primary, but the suffix never became fertile. Nearly all apparent examples from later periods are obviously nothing but *-mo-* *-mā-* forms which have passed into the *i*-declension.

No general definition can be given of the function of this suffix.

Indo-Germanic. **gr-mi-s* 'worm' (compare Lat. *cur-vo-s*?): Skr. *kṛ-mi-ś* m., O.Ir. *cruim* f. Mod.Cymr. *pryf* pr. Kelt. **kuri-mi-*, Lith. *kirmi-s*, gen. *kirmio*, transferred to the *io*-declension (and now obsolete) from which was formed *kir-m-ėlė* (§ 76 p. 212). With the same suffix, and formed in imitation of the word **gr-mi-s*, but from other roots, we have Lat. *ver-mi-s* m. O.H.G. *wurm* (pl. *wurmi*) m. 'worm' and Gr. *ἐλ-μ-ς* f. 'intestinal worm'. **uḷ-mi-s*: Skr. *ūr-mi-ś* m. 'wave', A.S. *wielm wylm* m. 'welling up, wave' pr. Germ. **uol-mi-z* (I § 306 p. 243). Avest. *dā-mi-s* 'creation, creature' (*dāmi-data-* 'gracious to created beings?'), Gr. *ῥέ-μ-ς* f. (with secondary formations which have invaded its declension) 'ordinance, right', *√dhē* 'set, establish'.

Aryan. Skr. *kṛ-mi-ś*, *ūr-mi-ś*, Avest. *dā-mi-s*, see above. Skr. *bhā-mi-ś* f. (also *bhāmī-*, see § 109 Rem.) Avest. *bā-mi-s* f. O.Pers. *bumi-* f. 'earth'. Skr. *raś-mi-ś* m. 'rein, strap', *kūr-mi-*

'action, performance' in *tuvi-kūrmī-š* 'mighty in action', *sūr-mi-š* f. 'light, shining flame'. Avest. *dā-mi-š* (*dā-mi-š*, see I § 200 p. 169) f. 'wisdom, insight', from *dā-* 'know, understand'.

Greek. *ἐλ-μ-ς*, *θέ-μ-ς*, see above. *γῆ-μ-ς* 'speech, talk, report' beside *γῆ-μῆ*.

Italic. Lat. *ver-mi-s*, see above. A change from the *o-* to the *i-*declension produced *in-ermi-s*, *sub-līmi-s* and the like; see § 93 p. 281 and § 95 p. 286.

Old Irish. *cruim*, see above. *cnāim* m. 'bone' pr. Kelt. **cnā-mi-*, beside Gr. *κνή-μῆ* 'shinbone', compare Aeol. *κνᾶ-μᾶ-ν* acc. (pl. Hom. *κνήμῃδε*) 'greaves'.

Germanic. O.H.G. *wur-m*, A.S. *wiel-m*, see above. By a change from the *o-* to the *i-*declension, Goth. *hái-m-s* f. 'village' beside pl. *hái-mō-s*, *ar-mi-ns* m. acc. pl. 'arms' beside the old *o-*stem O.H.G. *aram* O.Icel. *ar-m-r* (§ 72, 3 p. 171).

O.C.Sl. *sedmī* f. 'the number seven', *osmī* f. 'the number eight' were formed from the ordinals *sedmū*, *osmū* on the analogy of *petī*: *petū* and so forth.

§ 98. The Suffixes *-ri-* (*-rri-*) and *-li-* (*-lli-*)¹.

There are a few original nouns in which these suffixes are primary. *-li-* is very fertile in Italic. A large number of the examples of *-ri-* *-li-* which date from later periods, just as those of *-mi-*, arise simply from the transference of other stems into the *i-*declension.

No general definition can be given of their function.

Idg. *-ri-*. Skr. *ás-ri-š* f. 'the sharp side of a thing, corner, border, cut edge', Gr. *ἄκ-ρι-ς* f. 'point', esp. 'hill-top' *ὄκ-ρι-ς* f. 'point, corner, border', Lat. *oc-ri-s* m. 'hill-top'; compare Gr. *ἄκ-ρο-ς* etc.; see § 74 p. 184. Gr. *ῥδ-ρι-ς* 'knowing', O.Icel. *vit-r* 'wise' (pr. Germ. **uit-ri-z*), *√yeid-*. Skr. *vád-ri-š* 'gelded, castrated' Gr. *ἔθ-ρι-ς*, the same (cp. G. Meyer, Gr. Gr.² p. 68).

¹) C. von Pucker, Die [lat.] nomina derivata auf *-alis* (*-aris*) und *-arius*, Kuhn's Ztschr. XXVII 113 ff.

-li-. Lat. *tali-s quali-s*, O.C.Sl. *tolŭ* adv. 'so much, tantum' *kolŭ* adv. 'how much, quantum', and (derived from *-li-* stems) Gr. *τηλί-κο-ς* *πηλί-κο-ς*, O.H.G. Alemann. *welŕ solŕ*, O.C.Sl. *tolikŭ kolikŭ*; see § 88 p. 265, § 89 p. 272.

Aryan. Only the evidence of the kindred languages can determine whether in any particular word we have Idg. *-ri-* or *-li-*.

-ri-. Skr. *ás-ri-š* see above *jī-rī-š* 'flowing water', beside *jī-rá-s* 'lively, rough': Lat. *vi-reō* O.C.Sl. *žī-rŭ*, see § 74 p. 182 f. *śubh-rī-š* with the same meaning as *śubh-rá-s* 'gleaming, beautiful': Armen. *surb* 'pure', see § 74 p. 183. *ús-ri-š* with the same meaning as *us-rá-s* 'of the morning' (adj.): Gr. *av-ρ-ιο-ν*, see § 74 p. 181.

-li-. Skr. *tā-li-š* f. 'brush', beside *tū-lī* f. 'cotton, wick, brush' *tā-la-m* 'panicle, tuft': Gr. *τέ-λη* *τέ-λη*, see § 76 p. 198. Skr. *dhu-li-š* f. 'dust': cp. Lat. *fūligō* 'soot', Lith. *dūlkė* f. 'mote'. Avest. *tiy-ri-š* m. 'arrow, missile' beside *tiy-ra-* 'sharp, pointed': Goth. *stik-l-s*, § 76 pp. 200, 207.

In the following examples it is not clear whether the suffix originally had *r* or *l*. Skr. *bhū-ri-š* 'abundant, great, many', neut. *bhū-ri* Avest. *būiri*. Skr. *ānagh-ri-š* m. 'foot', *vāṇk-ri-š* m. f. 'rib'. *āb-hri-š* f. 'hoe, spatula'. Avest. *maoiri-š* m. 'ant' for pr. Ar. **maṇ-ri-š* (I § 160 p. 144), cp. Skr. *vam-rá-s* m. *vam-rī* f. 'ant'. — Skr. *anagū-ri-š* *anagū-li-š* f. 'finger' beside *anaguṣṭha-* Avest. *anagušta-* m. 'toe'. There are also a few adjectives in *-uri-š*, where we can hardly assume either *-rri-* or *-lli-*, as *sāhuri-š* 'mighty', *jāsuri-š* 'exhausted, weary'.

Greek. Here it is very rare. *ἄκ-ρι-ς* *ὄκ-ρι-ς*, *ἰδ-ρι-ς*, see above. No doubt we should add *ὕβ-ρι-ς*.

Italic. Lat. *oc-ri-s* m., Umbr. *ukri-per ocri-per* 'pro ocre': Gr. *ὄκ-ρι-ς*, see above. Lat. *ut-ri-s* m., to be compared perhaps with *uteru-s. secūri-s*, cp. *figūra* and similar forms. Lat. *sac-ri-* (e. g. *sacrem porcū*) beside *sac-ro-*, Umbr. *sakre n.* 'sacrum, hostia' beside *sakra* 'sacras'. Lat. *acer ac-ri-s*, beside Gr. *ἄκ-ρο-ς*; Osc. *akrid* 'acri' or 'raptim' might also be referred to a stem *akro-* (cp. *amprufid* 'improbe'). Lat. *put-*

-ri-s. Umbr. *puerer* pl. 'pacati, propitii', cp. Goth. *fag-r-s* 'suitable' pr. Germ. **fag-rá-s* § 74 p. 187. Cp. *-bri-* beside *-bro-* in *anclabri-s* etc., § 77 p. 215.

In Italic *tali-s quali-s* (p. 291) served as the types for a large group of adjectives; as Lat. *æquali-s, liberali-s, natali-s, ventali-s, vitali-s, dotali-s*; Umbr. *verfale* 'verbale, templum', *sorsālem* 'porciliarem', *Tefrali* abl. 'Tefri proprio'; the change of *l* to *r* by dissimilation seems to have taken place in pro-ethnic Italic when there was already an *l* in the word (cp. I § 269 p. 217): Lat. *alari-s, palmari-s, militari-s, lundri-s, lūminari-s*, Umbr. *staflarem* 'stabularem'. The analogy of *vita*: *vitali-s* gave rise in Latin to the forms *fideli-s* (*fidē-s*), *famelicu-s* (*famē-s*); *ovili-s* (*ovi-s*), *hostili-s* (*hosti-s*), and then further, to *virili-s* (*vir*), *puerili-s* (*puer*), *hastili-s* (*hasta*); *tribuli-s* (*tribu-s*), *idūli-s* (*idūs* pl.), whence *pedūli-s* (*pes*). Cp. Gr. *τοῖο-ς ποῖο-ς*: *παιτοῖο-ς ἀλλοῖο-ς* § 63 Rem. 2 p. 128 and O.C.Sl. *takŭ kakŭ*: *jedinakŭ drugako* § 89 c, p. 273.

-li- in Latin adjectives frequently arises from the transference of *o*-stems into the *i*-declension, and the group of original forms in *ali-s* (*-ēli-s -īli-s -ūli-s*) may have helped to effect the change. *simili-s*: cp. Gr. *ὁμαλό-ς* (in Celtic also an *i*-stem, O.Ir. *samail*, see below), *humili-s*: cp. Gr. *χθαρμαλό-ς*, *pestili-s* etc., see § 76 p. 202 f. 205. Further *agili-s*: Skr. *ajirá-s, bibili-s, coctili-s* etc., p. 204. Cp. also *stabili-s nobili-s* etc., § 77 p. 215.

There is one substantive in *-li-*, Lat. *tōlēs* pl. m. 'wen on the neck', for **tons-li-*, from *tens-* 'stretch' (Goth. *at-pinsan* 'to draw towards one', Lith. *tęs-ti* 'to stretch by pulling'); *tōnsillae* 'tonsils' points to an older form **tons-lo-* or **tons-lā-*.

Old-Irish. All the apparent examples of this suffix known to me may have originally been *ro-* *lo*-stems (cp. § 93 p. 282). *tēir* 'diligent'. *dūil* f. 'creature, element' (beside *dūl*). *biail*, gen. *bēla*, f. 'axe'. *samail* 'likeness, picture' with the adjectives derived from it, as *co-smil* 'similar': cp. Lat. *simili-s*.

In Germanic the suffix is extremely rare, and forms only adjectives, in which as in other *i*-stems, there is a confusion with the *io*-declension. O.Icel. *vīt-r* 'wise': Gr. *ἰδ-γι-ς*, see

above p. 290. Goth. *riu-r-s* 'fleeing, perishable' O.Icel. *rjpr-r* 'rhin'.

Balto-Slavonic. O.C.Sl. *dřb-rĩ* f. 'ravine'. Lith. *ang-lĩ-s* f. O.C.Sl. *ag-lĩ* m. 'coal'. O.C.Sl. *by-lĩ* f. 'plant, vegetable' beside part. *by-lũ*, *reč-lĩ* f. 'bud, shoot', *sop-lĩ* (beside *sopě-lĩ*) f. 'flute', *sũch-lĩ* f. 'dry wood, brushwood' beside *u-sũch-lũ* 'dry' (cp. I § 588 Rem. 2 p. 444), *tek-lĩ* f. 'resin', properly 'outflow', beside part. *tek-lũ*. In *-ě-li-* (cp. *-ě-lo-* § 76 p. 212 f.): *gybě-lĩ* f. 'destruction', *kapě-lĩ* f. 'bath', *pečalĩ* f. 'care, grief', *sopě-lĩ* f. 'flute', *svirě-lĩ* f. 'flute', *obitě-lĩ* f. 'dwelling', *obutě-lĩ* f. 'shoe', *dětlě-lĩ* f. 'deed'. In *-s-li-* (cp. *-s-lo-* § 76 p. 211): *jasli* pl. f. 'crib' for **ět-s-li-* beside *jastũ* 'he eats', *gasli* pl. f. 'zither' beside *gadž* 'I play on the zither', *myslĩ* f. 'thought' beside Goth. *ga-máud-jan* 'to remind', *otũ-rasli* f. 'sprig' beside *rastq* 'I grow'. Some of these forms with *-li-* must no doubt be explained in the same way as *žes-točĩ* (§ 93 p. 278. 284); *toplĩ* (beside *toplũ*) has already been mentioned in that section.

§ 99. The Suffix *-ti-*. In Indo-Germanic this was a common primary suffix, and formed feminine *nomina actionis*. In Aryan, Balto-Slavonic, (and Keltic, cp. § 156) regular infinitives were developed from these abstract verbal nouns; e. g. Skr. *pītáy-ē* O.C.Sl. *pi-ti* 'to drink'.

Here and there we find *nomina agentis* also formed with *-ti-*, and some of these occur in more than one language; as Lat. *hos-ti-s* Goth. *gas-t-s* O.C.Sl. *gos-tĩ*, O.Ir. *taid* O.C.Sl. *ta-tĩ*. All these forms may originally have been *nomina actionis*, the word which denoted a state or capacity being applied to the person in whom it was realised; thus Skr. *cĩtti-š* f. 'understanding, state of being intelligent' also means in the Rig-Veda 'he who is intelligent'. And even adjectival stems, like Skr. *pā-ti-š*, 'stinking', were developed from these abstract nouns. Cp. § 80 p. 238 f., § 108. 149. 155.

In denominative abstract nouns, *-ti-* is rare; examples are numerals like **penq-ti-s* 'fivefold character'. The *-ti* in Skr. *ká-ti* seems to be connected with this use of the suffix.

§ 100. 1. *-ti-* in primary abstract nouns (*nomina actionis*).

The root-syllable nearly always has the vowel in its weak grade. The accent is sometimes on the suffix, sometimes on the root, and in Sanskrit and Germanic the same word often shows both, as Skr. *mati-ś* and *māti-ś*, O.H.G. *gi-burt* (pr. Germ. **burdi-*) and Goth. *ga-baurþ-s* (pr. Germ. **búrþi-*). It is therefore probable that originally the accentuation varied in the different cases and corresponded to the different grades of the root; any nom. sing. **mén-ti-s* nom. pl. **mytēi-es*. In the process of levelling, the weak form of the root-syllable generally prevailed, and as the same readjustment happened also in the *to*-participles (§ 79 p. 221), the two are no doubt connected. In the Slavonic infinitive, **mén-ti-* was the type usually followed; which is due to the influence of the supine in *-tū* (§ 108).

These *ti*-stems were extended by the suffix *-en-*, and hence were formed a large class of abstract nouns in Italic and Celtic such as Lat. *men-tiō* beside *mēns*!), O.Ir. *er-mítin* 'honour'; these were not unknown even in Germanic and Greek, cp. Goth. *erþjo* Lat. *er-tiō*, and Gr. *doré-ē*. Cp. § 115. In Italic and Celtic a large proportion of the *ti*-abstracts were replaced by this newer formation.

These nouns could be derived from any form which served as a verbal stem, not merely from the root (in the strict sense of the word); hence words like Skr. *śūti-tis* f. 'speech' (beside part. *śū-ti-s*), Lat. *mon-tiō* (beside *moni-tu-s*) and Gr. *ōgō-ōi-s* f. 'seeing', Lat. *scutō* *scutōriō*, O.Ir. *scipit* 'a searching', Lith. *sėdėti* O.C.Sl. *sěditi* 'to sit'.

The addition of *-s-* to the stem of the thematic present is attested as in Skr. *śamās-ti* (Gr. *lāps-ōi-s*) was no doubt a secondary development, although perhaps it may have begun even in the prehistoric period, cp. Lat. § 79 p. 215 f.

In the Germanic languages the suffix *-en-* is derived from

¹ Lat. *Agros* 'the marshy soil' corresponding Latin has suffix *-tiō*, *Agros-tiō* 'the marshy soil' and *Agros-tiō* 'the marshy soil'.

✓ *srey-*: Skr. *sru-ti-ś* Gr. *ῥύ-σι-ς*. Skr. *jūṣ-ti-ś* f. 'mark of affection, favour', Gr. *γεῦ-σι-ς* f. 'tasting, taste' (a later formation from *γεῖω* for **γεῖ'ωω*), Goth. *ga-kust-s* f. 'trial, testing', ✓ *geus-*. Skr. *ādhi-ś* f. 'a leading, carrying', Lat. *vecti-s* m. 'lifter, lever' *vectiō*, inf. Lith. *vèszti* O.C.Sl. *vesti* 'to carry, vehere'. **qi-ti-s* f., from ✓ *qeṣ-*: Skr. *āpa-citi-ś* 'requital, punishment', Gr. *τί-σι-ς* 'estimate, atonement, punishment' *ἀπό-τι-σι-ς* 'requital, punishment'. Avest. *vaē-ti-ś* f. 'willow twig', Lat. *vī-ti-s* f., O.Ir. *feith* f. 'sinew', Lith. *vīj-ti-s* f. 'twig of willow-tree' O.C.Sl. *vi-tī* f. 'res torta in modum funis' *pa-vitī* f. no doubt = 'vitis', inf. Lith. *vīj-ti* O.C.Sl. *vi-ti* 'to wind, turn'. Skr. *vitti-ś* 'consciousness, the finding, becoming possessed of a thing'. Avest. *e-visti-ś* f. 'ignorance', Lat. *visiō* f., O.C.Sl. *za-vistī* f. 'envy, hatred' *věstī* f. 'news', ✓ *uejd-* 'videre'. **bhṛ-ti-s* f. from ✓ *bher-* 'ferre': Skr. *bhṛtī-ś* 'carrying, sustenance, support', Lat. *fors*, O.Ir. *brith* inf. 'to carry, carrying', Goth. *ga-baurþ-s* O.H.G. *gi-burt* 'birth'. **dhṛs-ti-s* 'boldness' from ✓ *dhers-* 'be bold': Skr. *dhṛṣṭi-ś* O.H.G. *ga-turst*. Gr. *ἄμελξι-ς* f. 'milking', Lith. inf. *mīlaz-ti* 'to milk', ✓ *melg-*. **gm-ti-s* f. from ✓ *gem-* 'go, come': Skr. *gāti-ś* (older **gātī-*, cp. I § 230 p. 196). 'gait, going', Gr. *πάσι-ς* (older **partī-*, cp. I § 235 p. 198 f.) 'gait, step', Lat. *in-ventiō*, Goth. *ga-gumþ-s* 'a meeting' O.H.G. *cumft cunft* 'a coming' and O.Icel. *sam-kund* 'meeting' (the difference is due to the variation of accent in protoethnic Germanic), Lith. *pri-gimtī-s* 'innate peculiarity' (cp. I § 249 p. 204). Skr. *ma-ti-ś* *mā-ti-ś* f. 'thought, mind', Gr. *μαί-τι-ς* m. 'one inspired, seer', Lat. *mēns men-tiō*, O.Ir. *er-mitiu* 'honour', Goth. *ga-mund-s* f. 'remembrance' *ana-mind-s* f. 'guess', Lith. *at-mintī-s* f. 'memory' O.C.Sl. *pa-mętī* f. 'remembrance', ✓ *men-* 'reflect'. **gṇ-ti-s* **gñ-ti-s* **gen-ti-s* from ✓ *gen-* 'gignere': Skr. *jāti-ś* f. 'birth' Avest. *fra-zainti-ś* f. 'progeny, children', Lat. *gēns nātiō* (cp. *gnātu-s nātu-s*: Skr. *jātá-s*). **kṛs-ti-* from ✓ *kens-*: Skr. *śasti-ś* 'praise, glory', Lat. *cēnsiō* (instead of **cens-tiō*, cp. *cēnsu-s* § 79 p. 223. 230). **peṇ-ti-s* f. from ✓ *peṇ-* 'cook': Skr. *pakti-ś* 'cooked dish', Gr. *πέψι-ς* 'cooking', Lat. *coctiō* for **cyec-tiō*, O.C.Sl. *peštī* 'fireplace' *pešti* inf. 'to cook'. **-d + ti* **dā-ti* **dō-ti* f. from ✓ *dō-* 'give': Skr. *bhāga-tti-ś* 'gift

of fortune' *diti-š* 'riches, possessions' *dāti-vāra-s* 'loving to give, generous', Gr. *δοῶν-ς* *δοῶν-ς* 'gift', Lat. *datiō dōs* (gen. *dōtis*), Lith. *dāti-s* O.C.Sl. *doti* 'gift'; inf. Lith. *dāti* O.C.Sl. *dati* 'to give'. **dhā-ti* **dhē-ti* f. from $\sqrt{\text{dhē}}$ 'ponere': Skr. *dīvā-hiti-š* 'divine law, ordinance', Avest. *ni-dāiti-š* f. 'laying aside, drawing off' (of clothes), Gr. *ῥέου-ς* 'setting, arranging, position', Lat. *con-ditiō*, Goth. *ga-dēp-s* (st. *-dēdi-*) O.H.G. *tat* 'deed', O.C.Sl. *blago-dēti* 'benefit, favour'; inf. Lith. *dēti* O.C.Sl. *dēti* 'ponere'. Skr. *dp-ti-š* 'reaching, attaining', Lat. *ad-eptiō* for **-up-tiō*. Skr. *syā-ti-š* f. 'a sewing, bag', inf. Lith. *šiū-ti* O.C.Sl. *ši-ti* 'to sew'. **plē-ti-s* f. 'filling' from *plē-* 'fill': Skr. *pra-ti-š*, Gr. *πλήου-ς* (late), Lat. *ex-plētiō*. Skr. *prā-jñā-ti-š* f. 'recognising' *jñā-ti-š* m. 'kinsman', Gr. *γνῶν-ς* f. 'knowledge', Lat. *nō-tiō*, O.H.G. *ur-chnāt* f. 'agnitio' (ground-form **gnē-ti-*), O.C.Sl. *po-znatī* f. 'cognitio'; ep. Av. *a-zainti-š* f. 'knowledge, understanding', Goth. *ga-kunþ-s* f. 'acquaintance' (abstr.) *ga-kund-s* f. 'a making acquainted, persuasion' O.H.G. *kunst* f. 'wisdom, mental capacity', O.C.Sl. *zē-ti* m. 'son-in-law' (ep. Lith. *žēnta-s* 'son-in-law', Gr. *γυνερός* 'near relative').

Examples of *-e-ti-* are given under the separate languages.

In Aryan *-ti-* is a living suffix. Skr. *śrū-ti-š* f. 'hearing, sound, news, tale' Avest. *fra-srūti-š* 'recitation, declamation': O.C.Sl. inf. *shu-ti* 'to be called, nominari' $\sqrt{\text{kley-}}$. Skr. *sōma-suti-š* f. 'pressing of the soma' *sū-ti-š* Avest. *hūti-š* 'pressing, preparation (of the soma)'. Skr. *buddhi-š* f. 'insight, observation, understanding' Avest. *paiti-busti-š* f. 'observing': Gr. *πύου-ς* f. 'inquiry, news', $\sqrt{\text{bheydh-}}$. Skr. *i-ti-š* f. 'going' Avest. *paititi-š* f., i. e. *paititi-š*, 'a running against, regret': Lat. *i-tiō*, Lith. *pri-eiti-s* f. 'suburb', $\sqrt{\text{ei-}}$ 'ire'. Skr. *kṣi-ti-š* Avest. *ṣi-ti-š* f. 'dwelling, settlement' Gr. *κτίου-ς* f. 'founding of a colony'. Skr. *diś-ti-š* f. 'direction, dictate' Avest. *a-diś-ti-š* f. 'direction, instruction': Gr. *δείξι-ς* f. 'showing', Lat. *dic-tiō*, O.H.G. *in-ziht* f. 'accusation'. Skr. *bhṛ-ti-š* f. 'carrying, sustenance, provision' Avest. *ber-ti-š* f. 'offering, fostering care': Lat. *fors* etc., see above p. 295. Skr. *dr̥ṣ-ti-š* *dr̥ṣ-ti-š* Avest. *darš-ti-š* f. 'seeing': Gr. *δέξι-ς* f. 'seeing', $\sqrt{\text{derk-}}$. Skr. *apa-sṛpti-š* f. 'going out, de-

parture': Gr. *ἔργου-ς* f. 'creeping'. Skr. *gá-ti-ś* f. 'a going' Avest. *aiwi-gaiti-ś* f. 'arrival': Gr. *βά-αι-ς* etc., √ *gem-*, see above p. 295. Skr. *rá-ti-ś* *rán-ti-ś* f. 'a pleasant tarrying, pleasure, delight': Gr. *ἐργασί-μολ-λου-ς* 'taking pleasure in song', Lith. inf. *rim-ti* 'to be calm in spirit', √ *rem-*. Skr. *ha-ti-ś* f. 'blow, killing' *á-huti-ś* *á-hanti-ś* f. 'inviolability' Avest. *jaiti-ś* *jainti-ś* f. 'striking, killing': Lith. *ap-ginti-s* f. 'vindication' inf. *giñ-ti* 'to drive (cattle)' O.C.Sl. inf. *žę-ti* 'to hew, mow', √ *ghen-*. Skr. *śas-ti-ś* f. 'praise, glory' Avest. *sas-ti-ś* f. 'instruction': Lat. *cēnsiō*, see above p. 295. Skr. *ni-śatti-ś* rest, inactivity': Lat. *sessiō* Lith. *sės-ti* O.C.Sl. *sěsti* 'to sit', √ *sed-* 'sit'. Avest. *ava-spašti-ś* f. 'espying': Gr. *σκέψι-ς* 'inspection, examination' (instead of **σπεξί-ς*), Lat. *in-spectiō*. Skr. *sthá-ti-ś* f. Avest. *staiti-ś* f. 'standing': Gr. *στά-αι-ς* 'position, place, uprising', Lat. *sta-tiō*, O.H.G. *sta-t* (pl. *steti*) f. 'place, stead', O.C.Sl. *po-statī* f. 'pars, modus' inf. Lith. *stó-ti* 'to tread' O.C.Sl. *sta-ti* 'to place oneself'; a form *-*st-ti-*, to be compared with Skr. *-tti-* 'gift' (p. 295 f.), may be concealed in Germ. **fir-sti* 'roof-ridge' (cp. § 4 p. 9), which would then be parallel to Skr. *savyē-ṣṭhar-* i. e. *-st+tar-* (§ 122). Skr. *mī-ti-ś* f. 'measure, worth, right judgement': A.S. *mā-d* f. 'measure, relation', √ *mē-*. Skr. *bhak-ti-ś* Avest. *bax-ti-ś* f. 'distribution', √ *bhag-*. Skr. *iṣ-ti-ś* Avest. *iš-ti-ś* *iš-ti-ś* f. 'wish', √ *ais-*. Skr. *iṣ-ti-ś* f. 'offering', √ *iaḡ-*. Skr. *ghrā-ti-ś* f. 'odour, smell' beside *parte. ghrā-tā-s*. Avest. *šyēti-ś* (gen. *šatōiš*) f. 'well-being, place of delight, home' O.Pers. *šiya-ti-ś* f. 'place of delight, dwelling-place' pr. Ar. **cyā-ti-*: Lat. *quies*, gen. *quētis*, Idg. *qiē-* 'be at ease'. Avest. *jyāiti-ś* f. 'life': cp. Gr. *ζῆ* 'he lives'. Avest. *upa-snāiti-ś* f. 'a washing', beside Skr. *snā-ta-s* 'washed'. We may add a few more examples of the variation of the accent in Sanskrit (there are more words with the accent on the root-syllable in classical Sanskrit than in Veda): *tyṣ-ti-* *tṣp-ti-*, *kīr-ti-* *kīr-ti-*, *bhū-ti-* *bhū-ti-*, *hū-ti-* *hū-ti-*. Masculine and Adjectival forms are rare; besides those given under Indo-Germanic cp. Skr. *dhū-ti-ś* m. 'shaker' (f. 'shaking', Gr. *θῦ-αι-ς* f. 'raging, roaring'), *vāś-ti-ś* 'desirous', Avest. *rai-ti-ś* m. 'distributor' (f. 'distribution, alms', Skr. *ra-ti-ś* 'alms, gift').

With reduplication we have e. g. Skr. *car-ky-ti-ṣ* f. 'laudatory mention, praise', *dī-dhi-ti-ṣ* f. 'devotion'. Avest. *zu-zūti-ṣ* f. 'throwing away'. Cp. the Greek forms p. 299.

Sometimes we have -e-ti-, e. g. Skr. *vas-a-ti-ṣ* f. 'nest', *dyś-a-ti-ṣ* 'aspect', *ram-ā-ti-ṣ* f. 'place of pleasant sojourn' *rām-a-ti-ṣ* 'gladly tarrying', *ar-a-ti-ṣ* m. 'servant', *ryk-ā-ti-ṣ* m. 'destroyer, robber', Avest. *par-aiti-ṣ* f. 'rotteness, filth'. Cp. Skr. *dars-a-tā-s* and the like § 79 p. 226.

In Aryan the dative of the -ti- abstracts served as an infinitive, e. g. Ved. *pī-tāyē* 'to drink' Av. *ker'-tēē* 'to fulfil' (cp. Bartholomae, Kuhn's Ztschr. XXVIII 20 f.).

Armenian. *z-gest*, gen. *z-gesti*, 'garment': Lat. *ves-ti-s*. *sus-t*, gen. *sasti*, 'abuse, reproach, threat, anger, sternness': Skr. *śāṣ-ṭi-ṣ* *śiṣ-ti-ṣ* f. 'punishment'.

In Greek it is a living suffix, especially fertile in forming *nomina actionis* from derived verbs. *χύ-σι-s* 'outpouring, gush, libation': Skr. *ā-hutiṣ* f. 'the offering of oblations' *λύ-σι-s* f. 'a loosing' beside *λυ-τό-s*. *φύξι-ς* f. 'flight': Lith. inf. *būkti* 'to be cast into fear', *φθί-σι-s* f. 'a waning, wasting': Skr. *kṣī-ti-ṣ* f. 'destruction'. *πίστι-ς* f. 'trust' beside *πιστό-ς* *πειθ-ω*. *δάσ-σι-s* f. 'flaying': Skr. *dṛ-ti-ṣ* f. 'leather skin or bag', Goth. *ga-taurp-s* (stem *ga-taurpi-*) f. 'destruction', Lith. inf. *dir-ti* 'to skin' ground-form **dṛ-ti*, √ *der-* 'tear'. *βρώσι-ς* f. 'food': Lith. *gir-ti-s* f. 'drink, feast', ground-form **gṛ-ti-* **gṛ-ti-* √ *ger-*. *μάσθ-τι-s* m. 'seizer, robber'. *τέφρι-ς* f. 'contenting, delight': Skr. *tṛp-ti-ṣ* *tṛp-ti-ṣ* f. 'satiating, contenting', Goth. *paúrf-t-s* O.H.G. *durft* f. 'requisite, want'. *πά-σι-s* f. 'gait, step': Skr. *gá-ti-ṣ* etc., see above p. 295. *τά-σι-s* 'stretching, straining': Skr. *ta-ti-ṣ* *tán-ti-ṣ* f. 'row', Lat. *in-tentiō*. *μάρ-τι-s* m. 'one inspired, seer': Skr. *ma-ti-ṣ* etc., see p. 295 above. *ἔξι-ς* f. 'condition, state', beside *ἀν-εστό-ς* *ἐχ-ω*. *ἀν-ισι-ς* f. 'a slackening, loosing' *σύν-εσι-s* f. 'understanding' *Ἡσι-οδο-ς*, *ἀν-ηαί-δογο-ς* 'sending forth gifts, letting grow' (of the earth), Lat. *sa-tiō*, Goth. *mana-sēp-s* (st. -*sēdi-*) f. 'seed of men, multitude, world' O.H.G. *sa-t* f. 'seed', Lith. inf. *sē-ti* 'to sow', √ *sē-* 'throw forth, sow'. *δή-σι-s* f. 'binding, knot': Skr. *ā-dīti-ṣ* 'boundlessness, state of being unconfined', √ *dē-* 'bind'. *γά-τι-s*

f. 'story, news' *qá-si-s* f. 'assertion': Skr. *bhā-ti-ṣ* f. 'gleam', \checkmark *bhā-* 'shine, cause to appear, show'. *καῦ-si-s* f. 'burning', from *καίω* *καύ-si-s*. *πῆξι-s* f. 'fixing, setting in': Lat. *pac-tiō*, \checkmark *pāk- pāg-*. *ὄψι-s* f. 'sight, countenance'. *ἄμ-πω-si-s* f. 'ebb': Lat. *pō-tiō*, cp. also Skr. *pī-ti-ṣ* f. 'drinking' O.C.Sl. *pi-ti* 'to drink', \checkmark *pō(i)-*. *ἄη-si-s* f. 'blowing'. *νή-si-s* f. 'spinning': O.H.G. *nā-t* f. 'seam'. *ῥῆ-si-s* f. 'speaking, word' for **fρη-si-s*: Avest. *urvāiti-ṣ* f. 'law' (cp. I § 157 p. 141). From derivative verbs: *ὄρα-si-s* 'seeing' (*ὄραω*), *αἰτη-si-s* 'prayer, demand', (*αἰτέω*), *ἀξίω-si-s* 'thinking worthy' (*ἀξιόω*), *κάθαρ-si-s* 'purifying' (*καθαίρω*), *ὑφαν-si-s* 'weaving' (*ὑφαίνομ*), *κηρύξι-s* 'proclamation, announcing' (*κηρύσσω*).

With reduplication: e. g. *ποῖφνξι-s* 'a snorting' from *ποι-φύσσω*. Cp. the Aryan forms p. 298.

With *-e-ti-* we have e. g. *αχ-έ-si-s* 'holding, condition', *λάχ-ε-si-s* 'lot, fate', *εὑρ-ε-si-s* 'finding'. Cp. also *ἄνν-si-s* 'completing'. In correspondence with these nouns we find the partic. *α-σχετο-s*, *εὑρε-τό-s*, *ἀν-ήν-το-s* § 79 p. 229.

-ti- was so widely used in Greek and formed so many new words that it is often impossible to tell whether a given word arose in Greek or is really Indo-Germanic. It is not probable that forms like *φεῦξι-s* *ῥεῦ-si-s* *ζεῦξι-s* Arcad. *ἔσ-τε-si-s* (beside *φρῆ-si-s* *ῥέ-si-s* *τίθι-s*), in which the root-syllable is in the strong grade, are to be referred simply and immediately to the ablaut variation of the stem in Indo-Germanic (see p. 294).

As to the association of the *-ti-*stems in compounds like *τεριφί-μεβροτο-s* with the *σ*-aorist, see § 30 p. 52.

In Italic, *-ti-* was no longer a living suffix. But its extension *-tidn-* (*-tin-*) was very fertile.

a. *-ti-*. Lat. *cu-ti-s* f.: O.H.G. *hū-t* O.Icel. *hū-d* f. 'skin' pr. Germ. **χū-dī-*. *tussi-s* f., no doubt to be connected with *tundō*. *fus-ti-s* m. *ῥί-ti-s* f.: Avest. *vaē-ti-ṣ* etc., see p. 295 above. *fors* f., Osc. *fortis* adv. 'forte' Pelign. *forte* gen. 'fortunae': Skr. *bhṛ-ti-ṣ* etc., see p. 295 above. *mors* f.: Skr. *mṛ-ti-ṣ* f. 'death', O.Lith. *mir-ti-s* f. O.C.Sl. *sū-mrǫti* f. 'death', common ground-form **mṛ-ti-s*. *sors*, also *sor-ti-s* f., beside *servō*. *ars* f.: Skr. *ṛ-ti-ṣ* f. 'method, kind, way'. *pars* f., beside *por-tiō*, see

I § 306 p. 242. *grā-tēs* pl. f., beside *grā-tu-s*. *mēns*, beside *men-tiō*, see p. 295 above. *gēns*, beside *nā-tiō*, see p. 295 above. *messi-s* f., beside *metō*. *res-ti-s* f.: Armen. *z-gest*, gen. *z-gesti*, 'garment'. Umbr. *ahtim-em* 'in actionem' beside *ahtu* 'actui', Lat. *agō*. Lat. *hos-ti-s* m. 'foreigner, enemy': Goth. *gas-t-s* m. 'stranger, guest', O.C.Sl. *gos-ti* m. 'guest, companion, friend' (the root meaning is perhaps 'injury, harm', compare Skr. *ghas-* 'to consume'; see the Author, in Curtius' Stud. V. 228 ff.). *nox* f.: Skr. *nák-ti-ś* f. Goth. *nah-t-s* f. Lith. *nak-ti-s* f. O.C.Sl. *noš-ti* f. 'night'; yet this word **noq-ti-* may not belong to the oldest stratum of *ti-* nouns, but be only an extension of **noq-t-* (§ 123). *cōs*, gen. *cōtis*, f., cp. Skr. *śā-ta-s* 'whetted, sharpened', Gr. *αἰχμή* 'cone'. *quīs*, gen. *quīctis*, f.: Avest. *šyēti-š*, see above, p. 297. From *satiare*: *satias*, gen. *satiātis*, f. 'sufficiency, repletion'.

forti-s O.Lat. *forti-s* originally followed the *o*-declension: Skr. *dydhdhā-s* 'established, firm', √ *dhergh-*.

b. *-tiōn-*. Lat. *junc-tiō*: Skr. *yuk-ti-ś* f. 'a yoking, setting going', Gr. *ζεύξω* f. 'a yoking, putting to', Lith. inf. *jūnkt-i* 'to yoke'; the nasal of the Lat. and the Lith. form came from the present stem (Lat. *jungō* Lith. *jūngiu*). *circum-litiō*: Lith. inf. *lėti* 'to pour'. *fissiō*: Skr. *bhitti-ś* f. 'a breaking'. *por-tiō* beside *pars*, see p. 299 above. *cul-tiō*, from *colō* for **cuelō* (I § 427 a p. 313, § 431 a p. 320). *ēm-p-tiō* (the regular form would have been, **en-tiō*, see I § 207 p. 174): O.Ir. inf. *air-itiu* 'accipere', O.C.Sl. *raġo-jeti* f. 'manipulus, sheaf' inf. Lith. *im-ti* O.C.Sl. *jē-ti* 'to take'. *men-tiō* beside *mēns*, see above, p. 295. *nā-tiō* *cōg-nā-tiō* Umbr. *natine* 'natione, gente', beside *gēns*, see above p. 295. *of-fensiō*, from *of-fendō*. *coctiō*: Skr. *pak-ti-ś* etc., see p. 295 above. *gestiō*, beside *gerō*. *messiō* (cp. *messi-s*) see above. *lec-tiō*: Gr. *λέγω* f. 'speaking, expression'. *sta-tiō*; the stem from which this is derived, **sta-ti-*, may be contained in Umbr. *statita* 'statuta': Skr. *sthi-ti-ś* etc., see p. 297 above. *ra-tiō*: Goth. *ra-þjō* f. 'reckoning, account', beside Lat. *rē-rī ra-tu-s*. *ac-tiō* beside Umb. *ahtim-em* 'in actionem'. *cap-tiō*: Goth. *anda-haft-s* f. 'rejoinder, answer' Mid.H.G. *haf-t* f. 'a holding, hold'. *cautiō* Skr. *ā-kū-ti-ś* f.

'intention'. *auctiō*: Lith. inf. *áuk-ti* 'to grow', √ *aug-*. *scānsiō*, beside *scandō*. *nō-tiō*: Skr. *prá-jñati-ś* etc., see above p. 296. *con-crē-tiō*. From derivative verbs: Lat. *occupātiō dominātiō captātiō* Osc. *medicatinom* 'judicationem' fruktatiuf 'usus, fructus', Lat. *lurgtiō sortitiō, tribūtiō*. It should be observed however that the great fertility of *-tiōn-* often makes it doubtful whether any given word really represents an original *ti*-stem, e. g. *fissiō auctiō*.

Lat. *monitiō, vomitiō, sorbitiō, ex-spuitiō*. {Osc. *úittiuf* 'usio, usus' for **oit(i)tiuf*, see I § 501 Rem. 2 p. 368, § 633 p. 474. Cp. *monitu-s* and so forth, § 79 p. 231.

Old Irish. *fēith* f. 'sinew': Avest. *vaē-ti-ś* etc., see above p. 295. *tāid* m. 'thief': O.C.Sl. *ta-ti* m. 'thief'.

-ti- was a living suffix, and formed abstract verbal nouns which were feminine (for the infinitives see § 156). *huith* 'being': Skr. *bhū-ti-ś bhū-ti-ś* f. 'good condition, well-being', Gr. *qú-ai-ς* f. 'nature', O.C.Sl. *za-byti* f. 'forgetting, forgetfulness', inf. Lith. *bū-ti* Slav. *by-ti* 'to be'. *brith* 'carrying': Skr. *bhṛ-ti-ś* etc., see above p. 295. *blith* 'grinding, molere', beside *melim* 'I grind' (I § 212 p. 179). *cleith* (Mid.Ir.) 'concealment, hiding', beside *celim* 'I conceal'. *saigid* 'seeking out', beside *saigim* 'I seek out', compared with Lat. *sāgiō*. *iar-figid* 'questioning', cp. Lat. *vocātiō*.

Adjectives in *-ti-*, like *blaith* 'soft, gentle' (ground-form **m[ti-s*, I § 306 p. 243), *ē-cm-aill* 'insolens', may have originally belonged to the *o*-declension. Cp. § 93 p. 282.

Some of the feminine abstract substantives in *-tiu* are also used to form infinitives (§ 156). *er-mitiu* 'honour' *toim-tiu* 'meaning, intent': Lat. *mentiō*, see above p. 295. *air-itiu* 'accipere': Lat. *ēemptiō*, see above p. 300. *clōsi(u)* 'hearing': Skr. *śruṣ-ti-ś* f. 'a gratifying, courtesy', O.Sax. O.Icel. *hlus-t* f. 'hearing', Lith. inf. *klūs-ti* 'to ask' (I § 467, 2 p. 343). *epelt(iu)* 'death, sinking', beside *at-bail* 'he dies, perishes'. *aicsiu* 'seeing' from **-cas-tiō*, beside *ad-chess* 'visum est'. *aightiu* 'fearing', for **-agithiu*. Sometimes we find this extended form side by side

with the shorter form in *-ti-*; e. g. dat. *do saichtin* and *do saigthin* (both Mid.Ir.) = *do saigid* 'to seek out'.

Germanic. In protoethnic Germanic *-ti-* was fertile; but later on it passed almost, if not entirely out of use. This was due to two causes; to the variation caused by phonetic change (cp. e. g. Goth. *anda-hafti-*, *ga-mundi-*, *ga-dēdi-* (pronounced *-dēdi-*), *ga-qumþi-*, *ga-pissi-*), and to the almost complete loss of the *to-* participles, which broke down its formal connexion with the verb.

Goth. *us-taiht-s* 1) 'completion, fulfilment' O.H.G. *zuh-t* 'drawing, training': Lat. *duc-tiō*, √ *deyk-*. Goth. *fra-lust-s* 'loss, destruction' (compare O.H.G. *lus-t* 'pleasure', perhaps in the sense of 'being free, unrestrained'), beside Goth. *-liusan*: cp. Gr. *λύ-σις*. Goth. *saiht-t-s* O.H.G. *zuh-t* 'illness', beside Goth. *siukan* 'be ill'. Goth. *lis-t-s* O.H.G. *lis-t* 'craft, trick' beside Goth. *leisan* 'to experience, learn': O.C.Sl. *līs-tī* f. 'deceit, trick'. Mid.H.G. *trif-t* 'driving, pasturage, meadow' O.Icel. *drip-t* 'snow drift', beside Goth. *dreiban* 'to drive'. O.H.G. *scur-t* 'shearing': Gr. *κάρ-αις* f. 'shearing', √ *(s)ker-*. Goth. *ga-faird-s* 'a meeting, high council' O.H.G. *far-t* 'travelling' ground-form **pf-ti-* and **pf-ti-*, √ *per-*. O.H.G. *ga-turst* A.S. *ze-dyrst* 'boldness': Skr. *dhr̥ṣ-ti-ṣ* 'boldness', √ *dhers-*. Goth. *fra-vairht-s* O.Sax. *far-wurht* 'misdeed, sin': Avest. *anvaršti-ṣ* i. e. *anuvaršti-ṣ* f. 'suitable conduct'. O.H.G. *gi-dult* 'patience': Lat. *ob-latiō* (-*tlāti-* for **tī-ti-*), √ *tel-*. Goth. *ga-qumþ-s* 'meeting' O.H.G. *cumft* *cunft* 'coming' O.Icel. *sam-kund* 'meeting': Skr. *gá-ti-ṣ* etc., see above, p. 295. Goth. *anda-numt-s* 'taking up, reception' O.H.G. *numft* *nunft* 'taking', beside Goth. *niman*. Goth. *ga-kumþ-s* 'a being acquainted' *ga-kund-s* 'a making acquainted, persuasion', O.H.G. *kunst* 'wisdom': Avest. *ā-zainti-ṣ* f. 'knowledge, understanding', see p. 296 above. As to *ft* and *st* in the last-named forms see I § 214 p. 180 f. and § 529 p. 386. O.H.G. *ana-daht* 'devotion' for **hanx-ti-*, beside Goth. *þagkjan* (pret. *þāhta*) 'to think'. O.H.G. *sih-t* 'sight, power of sight', beside Goth.

1) The forms which follow are feminine unless it is otherwise stated.

saihvān 'to see': cp. Lith. *sėk-ti* 'to follow'? (cp. I § 419 p. 307). Goth. *fra-gift-s* 'bestowing' O.H.G. *gif-t* 'gift', beside Goth. *giban* 'to give'. Goth. *ga-giss* 'agreement', beside *ga-gipān* (pret. *ga-qap*). O.H.G. *sta-t* O.Sax. *ste-di* 'place, stead': Skr. *sthi-ti-ś* etc., see above p. 297. Goth. *ga-dēp-s* (st. *-dēdi-*) O.H.G. *tā-t* 'deed': Avest. *ni-dāiti-ś* etc., see above, p. 296. Goth. *anda-haft-s* 'rejoinder, answer' Mid.H.G. *haf-t* 'hold': Lat. *cap-tiō*. Goth. *ga-skaft-s* O.H.G. *gi-scaft* 'creation, creature', beside Goth. *ga-skappjan* 'to make'. Goth. *mah-t-s* O.H.G. *mah-t* 'might': O.C.Sl. *mošti* f. 'might' inf. *mošti* 'to be able or capable'. Goth. *gas-t-s* m. O.H.G. *gas-t* m. 'guest': Lat. *hos-ti-s*, see above p. 300. Goth. *slaiuh-t-s* 'slaughter' O.H.G. *slah-t* 'striking, slaying': Gr. *λάκ-τις* 'pestle for pounding, pounding' (*λακίζω*, Lat. *lacerō*)? Goth. *aiht-t-s* O.H.G. *ēht-t* 'property, possession': Av. *iś-ti-ś* f. 'goods, riches' (Skr. *iś-*). O.H.G. *ur-chnāt* 'agnitio': Skr. *prā-jñā-ti-ś* etc., see p. 296 above. O.H.G. *nā-t* 'seam': Gr. *νή-σις* f. 'spinning'. O.H.G. *hano-crāt* 'cock-crow' (A.S. *crāwan* 'to crow'): Lith. inf. *gró-ti* 'to croak'. O.H.G. *bluo-t* 'blooming, bloom', beside Lat. *flō-s*. Mid.H.G. *gruo-t* 'a being green', beside Gr. *χλω-ρός* 'light green, yellow'. The following no doubt come from weak verbs: Goth. *fahēp-s* (st. *fahēdi-*) 'joy' (see Bremer, Paul-Br. Beitr. XI 32), Goth. *ar-bāip-s* (st. *arbāidi-*) O.H.G. *arabeit* 'work, need'.

Now and then we find *-s-ti-* instead of *-ti-*, as Goth. *an-st-s* O.H.G. *an-st* 'favour, grace' (compare O.Icel. *qf-un-d* 'ill-will'), beside O.H.G. *unnan* 'to bestow', O.H.G. *span-st* 'enticement', beside *spanan* 'to entice', Goth. *hāif-st-s* A.S. *hāest* beside O.Icel. *heip-t* 'strife', O.H.G. *trust* for **truh-st* beside *truh-t* O.Icel. *drōtt* 'troop, following'. This *s* came originally from forms like O.Sax. O.Icel. *klu-s-t* 'hearing' = Skr. *śruś-ti-ś* (p. 301), Mid.H.G. *bluo-s-t* (cp. A.S. *blōstm* and Lat. *flōr-ēre*) beside *bluo-t* 'bloom': in West-Germanic, forms like *kunst* must also have had some influence, if the conjecture given in I § 529 Rem. p. 386 is correct. Cp. *-s-tyo-* § 61, *-s-tro-* § 62, *-s-lo-* § 76, *-s-tu-* § 108, *-s-men-* § 117.

In the Germanic dialects many of these words became

masculine without any change of meaning; this must be distinguished from the change of gender in such words as *gasti* 'guest'. Cp. von Bahder, Verbalstr. 76 f.

(Goth. *ra-piō* 'reckoning, account': Lat. *ra-ti-ō*, see above p. 300).

Balto-Slavonic. Here *-ti-* was very fertile, forming all the infinitives of Lithuanian, Lettic, and Slavonic. And it should be noticed that in this group of languages the phonetic changes which the suffix underwent were very slight (O.C.Sl. *nostī* for pr. Slav. **notǫ*, I § 462 p. 338).

Lith. *plu-ti* 'to become flooded, overflow' O.C.Sl. *plu-ti* Russ. *ply-t'* 'to flow, swim': Skr. *plu-ti-ṣ* f. 'overflowing, flood', Gr. *πλύ-σις* f. 'washing', √ *pleu-*. Lith. *isz-aūti* O.C.Sl. *iz-uti* 'to uncover the feet': Lat. *ex-ūtiō* (late). Lith. *jáu-ti* 'aquam fervidam super infundere' Lett. *jáu-t* 'to make dough, mix' *jû-tis* pl. 'joint where two bones are connected': Skr. *yu-ti-ṣ* f. 'meeting together' *yū-ti-ṣ* f. 'bond' Avest. *gao-jaoti-ṣ* f. 'meadow-land, cattle-pasture'. Lith. *mūk-ti* 'to slip away' *maūk-ti* 'to graze': Skr. *mūk-ti-ṣ* f. 'loosing, freeing, giving up', Gr. *ἀπό-μυξις* f. 'blowing the nose', Lat. *ē-mūnctiō* (the nasal comes from the present). Lith. *pri-eiti-s* f. 'suburb' inf. *eī-ti* O.C.Sl. *i-ti* 'to go': Skr. *i-ti-ṣ* f., etc., see p. 296 above. Lith. *szli-ti-s* f. 'heap of sheaves' inf. *szlė-ti* 'to make one thing lean on another': Gr. *κλί-σις* f. 'bending, inclining, lying', √ *klei-*. O.C.Sl. *žī-ti* f. 'life' inf. *ži-ti* 'to live' Lith. *gý-ti* 'to revive, get well': Avest. *jñ-ti-ṣ* f. 'life'. Lith. *ný-ti-s* f. 'weaver's instrument, spale': Skr. *nṛ-ti-ṣ* f. 'leading, guiding'. Lith. *lik-ti* 'to leave': Gr. *ἐκ-λεψις* f. 'ceasing, failing', Lat. *re-lictō*. O.C.Sl. *čis-ti* 'honour' inf. *čisti* Russ. *čest* (i. e. **čisti*) 'to count, reckon, honour': Skr. *čit-ti-ṣ* f. 'thought, intent, intelligence'. Lith. *dir-ti* 'to skin' Little-Russ. *derty* (i. e. **dir-ti*) Slov. *dreti* (i. e. **der-ti*) 'to tear, skin': Skr. *dṛ-ti-ṣ* etc., see p. 298 above. Lith. *gir-ti-s* f. 'feast' *gér-ti* 'to drink' O.Croat. *po-žrti* Little-Russ. *žerty* (i. e. **žir-ti*) O.C.Sl. *žrėti* (i. e. **žerti*) 'to swallow': Gr. *βρω-σις* f. 'food, victuals' (ground-form **gṛ-ti-s*). Lith. *pir-ti-s* f. 'bath-room' *peĩ-ti* 'to bathe' (trans.), pres. *periù*. Lith. *kiĩsti* 'to strike sharply, strike

hard': Skr. *kṛtti-ṣ* f. 'hide, skin' (*kart-* 'cut off, loosened'). O.C.Sl. *vr̥stī* f. 'condition, state, situation' Lith. *vir̥sti* 'to upset, be upset'. *ver̥sti* 'to turn': Skr. *vṛt-ti-ṣ* f. 'rolling, proceeding, conduct', Lat. *in-versiō*. Lith. *pāl-ti-s* f. 'side of bacon' O.C.Sl. *plū-tī* f. 'meat'. Lith. *pāl-ti* 'to pour, shed': Skr. *pūr-ti-ṣ* 'filling, fulfilment', ✓ *peḥ*. Lith. *kil-ti-s* f. 'race, stock' *kėl-ti* 'to lift, transport, help forward'. Lith. *milsz-ti* Slov. *molsti* (i. e. **mīls-ti*) O.C.Sl. *mlēsti* (i. e. **mels-ti*) 'to milk': Gr. ἄμειλι-ς f. 'milking', ✓ *melg-*. Lith. *skl̥sti-s* f. 'cloven foot of an ox' (*skēld-u* and *skēldēiu* 'I crash, break myself in two'): cp. Gr. κλάσι-ς f. 'breaking' beside κλασι-ς κλαδ-αρό-ς (cp. I § 369 p. 280). Lith. *at-mintī-s* f. 'memory' O.C.Sl. *pa-mēti* f. 'remembrance' Lith. *miñ-ti* 'to remember': Skr. *ma-tī-ṣ* etc., see p. 295 above. Lith. *liñk-ti* 'to bend' (intr.) *leñk-ti* 'to bend' (trans.) O.C.Sl. *lēsti* 'to bend' (trans.), ✓ *leag-*. Lith. *bl̥sti* 'to grow dark' *bl̥sti* 'to darken' (intr.) (pres. *blendziū-s*) O.C.Sl. *bl̥sti* 'to go astray' (pres. *bl̥d-a*), ✓ *bhlendh-*. Lith. *ugn̄-dekti-s* f. 'piercing cold' *d̥ek-ti* 'to burn' (trans. and intrans.), O.C.Sl. *žēsti* 'to burn' (trans.), beside pres. *deg-ù* *žeg-a* (pr. Slav. **geg-a* for **deg-a*), ✓ *dhegh-*. Lith. *ēsti* 'to devour' O.C.Sl. *jasti* 'to eat': Gr. νῆσι-ς 'fasting', Lat. *com-ēstiō* (instead of the regular **ēsiō*, cp. I § 501, Rem. 2 p. 368), ✓ *ed-*. Lith. *dū-ti-s* f. O.C.Sl. *da-tī* f. 'gift', Lith. *dū-ti* O.C.Sl. *da-ti* 'to give': Skr. *dāti-* etc., see p. 295. Lith. *sp̥-ti* 'to have leisure, be quick enough' O.C.Sl. *sp̥-ti* 'to go forward, have success': Skr. *sphā-ti-ṣ* f. 'a making fat, prospering' *sph̄-ti-ṣ* f. 'prosperous condition', O.H.G. *spuo-t* f. 'progress, success', ✓ *sp̄(i)-*. Lith. *nak-tī-s* f. O.C.Sl. *noštī* f. 'night': Skr. *nāk-ti-ṣ* etc., see p. 300 above. Lith. *pr̄-žastī-s* f. 'cause', beside *žad-ù* 'I promise', O.C.Sl. *na-pastī* f. 'danger', beside *padq* 'I fall'. O.C.Sl. *sē-tī* f. 'cord', Lett. *si-t* 'to bind', ✓ *sai-*. Lith. *jó-ti* 'to ride': Avest. *vasē-yaiti-ṣ* f. 'free course, progress after one's desire'. Lith. *žio-ti-s* f. 'cleft, ravine' *žió-ti* 'to open the mouth wide': Lat. *hia-tiō*. O.C.Sl. *po-znatī* f. 'cognitio' *zna-ti* 'to know': Skr. *prá-jñati-ṣ* f. etc., see p. 296 above. O.C.Sl. *gr̄-ti* 'to warm', beside pres. *gr̄-ja*. Infinitives in Baltic and Slavonic were closely connected with the finite verb; hence the action of ana-

logy caused many changes in the grade of the root-vowel. For the phenomena in Slavonic cp. Leskien, *Archiv f. Slav. Phil.* V 497 ff.

In Lithuanian we sometimes find *-s-ti-*, as *ugnā-deksti-s* beside *ugnā-dekti-s* (p. 305), cp. *dek-s-ni-s* § 95 p. 287. *-ti-* stems frequently passed into the analogy of *-ja-* and *-ė-* stems, e. g. *krý-ti-s* gen. *-tės* f. and *krý-ti-s* gen. *-czio* m. 'purse-net, hoop-net', *szli-ti-s* and *szli-tė* f. 'heap of sheaves'.

Infinitives of derivative verbs; Lith. *jėszkó-ti* O.C.Sl. *iska-ti* 'to seek', Lith. *sėdė-ti* O.C.Sl. *sėdē-ti* 'to sit'; Lith. *gany-ti* O.C.Sl. *goni-ti* 'to protect, tend'.

§ 101. 2. *-ti-* is used to form secondary abstract substantives. This use is exactly parallel to that of the participial suffix *-to-* and the abstract nominal suffix *-to-* *-tā-* (which were originally identical); both of these, as we have seen, could be added directly to noun stems in the protoethnic and later periods (§ 79 p. 224 f. § 80 p. 238 ff. § 82 p. 249 ff.).

The forms which can be most confidently referred to the protoethnic language are a group of abstract nouns connected with the ordinals in *-to-* (§ 81 p. 242 ff.) **penq-ti-s* f. 'fivefold character, the number five, a group of five': Skr. *pañctī-ś*, O.Icel. *fimt*, O.C.Sl. *petī*; with these should no doubt be compared O.H.G. *fast* f. 'fist' pr. Germ. **funxti-z* and O.C.Sl. *pestī* f. 'fist' (*-st-* for *-kst-* as in *tēste*, see I § 545 p. 399 f.), common ground-form **penq-sti-s*¹⁾. Skr. *śaṣ-tī-ś* f. 'sixty' (a six-fold quantity, i. e. of tens), O.C.Sl. *šes-tī* f. 'a group of six'. Skr. *nava-tī-ś* 'ninety' (a nine-fold quantity) i. e. of tens) Avest. *navaiti-š* f. 'a group of nine' and 'ninety', O.Icel. *nīun-d* f. O.C.Sl. *devę-tī* f. 'a group of nine'. Skr. *daśa-tī-ś* 'a group of ten' and 'a hundred', O.Icel. *tīun-d* f. 'a group of ten', Lith. *dėszim-ti-s* f. O.C.Sl. *dese-tī* f. 'a group of ten'. These numeral forms naturally suggest

1) Cp. **penq-* in O.H.G. *funfin* and elsewhere (Kuhn's *Ztschr.* XXVII 193 f., Paul-Braune's *Beitr.* XII 512) and for meaning, Goth. *figgr-s* 'finger', which is doubtless connected with this numeral. — Vol. I § 249 p. 205 should be corrected accordingly.

the conjecture, that we have the same suffix in Skr. *tá-ti* (nom. acc.) 'so many' *ká-ti* (nom. acc.) 'how many?', Lat. *tot toti-dem*, *quot*: these words may have been originally neuter.

Remark. In Greek we find numerals in *-tu-*; in place of such forms as **petuq-ti-s* (see § 108). In protothnic Indo-Germanic there were forms in *-ti-* parallel to these in *-ti-* (see § 123).

Beside Idg. **iuuy-tá* 'youth' (§ 80 p. 239) there seems to have been a second form **iuuy-ti-s* f. with the same meaning: Skr. *yuvati-ś* 'maiden, young woman' (the abstract is used for the concrete, § 155), O.H.G. *jugund* A.S. *ƷeoƷoð* 'youth' (Engl. *youth* both as the period and the person), prehist. Germ. **iuƷúnþi-* for **iuƷúnþi-* (Bugge, Paul-Braune's Beitr. XIII 504). Lat. *sēmen-ti-s* f. 'seed, seed-corn, seed time', originally 'the being sown'.

Further it is possible that stems in *-es-ti-* *-os-ti-* (cp. Lat. *sceles-tu-s onus-tu-s* and the like) date from the protothnic period. In the words in which they occur, the termination *-esti-* *-osti-* is used as a simple and indivisible suffix. Skr. *gábhasti-ś* f. m. 'a thing separated into different parts, hand, fork, shaft (of a carriage)', *pulasti-ś* 'hair of the head, wearing smooth hair', *palasti-ś* 'gray with old age' (dubious). Lat. *agresti-s*, orig. 'a belonging to the country, rusticity'? O.H.G. *angust* f. 'anxiety' O.C.Sl. *qzostĭ* 'strait, narrowing', cp. also Lat. *angustu-s angustiae*. In Lithuanian we have *-esti-s*, which passed over to the *-io-* declension: *kalbesti-s* f. 'speech', beside *kalbesni-s* m. 'talk' and *kalbesi-s* m. 'dialect' *kalbesė* f. 'speech'; *mōkesti-s* m. (gen. *-esczio*), beside *mōkesni-s* m. 'payment'; *lūkesti-s* f. 'awaiting, hope'; *rūpesti-s* f. m. 'care'. In Slavonic there are a large number of feminine abstract nouns in *-ostĭ* (but *-j-estĭ*, see I § 84 p. 80) formed from adjectives, and, more rarely, from substantives: besides O.C.Sl. *qzostĭ* (cp. *qzūkū* 'narrow'), which has been mentioned, other examples are *dlūgosť* 'length' from *dlūgŭ* 'long', *dobľestĭ* 'bravery' from *dobľi* 'brave', *zvěrostĭ* 'wildness' from *zvěřĭ* 'wild animal', *boljestĭ* 'illness' from *bolĭ* 'one who is ill'.

Other forms are more isolated, e. g. Skr. *addha-ti-ś* (concrete) 'one who has learnt the truth, sage' beside *addhā* 'in

truth', Goth. *gamāin-p-s* f. 'community' beside *ga-māin-s* 'common, joint' (cp. *gamāin-dāp-s* § 102 below, and p. 311).

For *-ti-* in *-tāti-* and *-tūti-*, see the following section.

§ 102. The Suffixes *-tāti* (*-tāt-*) and *-tūti-* (*-tūt-*)¹. The former occurs in Aryan, Greek, and Italic; the latter in Italic, Celtic and Germanic. They formed feminine abstract nouns from adjectives and substantives. *-tāti-* appears to have arisen through the addition of *-ti-* (§ 101) to *-tā-* (§ 80 p. 238 ff.), cp. Skr. *dēvā-tā-* and *dēvā-tāti-*, Skr. *guru-tā-* and Gr. *βαρύ-της*, Lat. *juven-tā-* and *juven-tāti-*. The accumulation of suffixes would be like that in Skr. *-tvā-tā-*, cp. § 56 p. 103 f.; Lat. *juven-tāti-* : *juven-tā-* : Skr. *yuva-ti-* = *puruṣa-tvāta-* : *puruṣa-tva-* : *puruṣā-tā-*. *-tūti-* may have come from *-tu-* stems (§ 108) rather later. The parallel forms *-tāt-* and *-tūt-* beside *-tāti-* and *-tūti-* resemble doublets like Idg. **noq-t-* : **noq-ti-* 'night', **dekṃ-t-* : **dekṃ-ti-* 'ten-fold character', Skr. *sam-i-t-* f. beside *sām-i-ti-* f. (§ 123), and the shorter forms no doubt contain the suffix *-t-*.

Most of the words which occur in more than one language have *-tāt(i)-*: Skr. *sarvā-tāti-ṣ* *sarvā-tāt-* 'perfection'. Avest. *haurva-tāt-* 'safety', Gr. *ὅλο-της* 'totality, entirety', beside Skr. *sārva-s* Gr. *ὅλο-ς* 'whole'; Gr. *νεό-της* 'youth', Lat. *novi-tās*, beside Gr. *νέος* Lat. *ново-s*. With *-tūt(i)-*: Lat. *juven-tūs*, O.Ir. *óitiu* 'youth' (dat. *óitid*) for **(i)ouētū(s)* (*-iu* for *-u* is due to the palatal character of the preceding syllable). A form with *-tūt(i)-* in one group of languages sometimes corresponds to a form with *-tāt(i)-* in another, as O.Cymr. *duiu-tit* 'deitas': Skr. *dēvā-tāt-*; O.Ir. *beo-thu* 'life': Gr. *βίό-της*; O.Ir. *oen-tu* 'unitas': Lat. *ūni-tās*; Goth. *gamāin-dūp-s*: Lat. *communi-tū-s*. In many words *-tūt(i)-* may have ousted *-tāt(i)-*, which on the whole is certainly older.

For the loss of a syllable in forms like Avest. *amer'tat-* beside *amēr'tu-tāt-* 'immortality', Gr. *ποτῆρ-* 'drink' for **πορο-*

1) Th. Aufrecht, Das Affix *της tāt*, Kuhn's Ztschr. I 159 ff. C. Angermann, Das Suffix *της* in Primärbildungen, Curt. Stud. III 122 ff. K. Walter, Das latein. Suffix *-tāt* and *-tūt*, Kuhn's Zeitschr. X, 159. C. von Paucker, Die [lat.] substantive abstracta auf *-tas*, ibid. XXIII 138 ff.

-tār-, Lat. acc. *luculentatē* beside *luculenti-tatem*, see I § 643 p. 481 f.

Aryan. In Sanskrit, *-tāti-* and *-tāt-* (the latter is rarer) are only found in Veda, and even there not frequently. In Avestic we have only *-tāt*, where it is comparatively commoner than either form in Sanskrit. Skr. *uparā-tāt-* 'neighbourhood, environs'. Avest. *upara-tāt-* 'superiority', beside Skr. *ūpara-* 'nearer'. Avest. *upara-* 'upper'. Skr. *grbhūtā-tāti-ṣ* 'state of being caught' from *grbhūtā-s* 'caught', *jyēsthā-tāti-ṣ* 'sovereignty' from *jyēsthā-s* 'mightiest', *satyā-tāti-ṣ* and *satyā-tāt-* 'truthfulness' from *satyā-s* 'truthful', *āsta-tāti-ṣ* 'homestead, home' from *āsta-m* 'home', *śā-tāti-ṣ* 'health, bliss' from *śām-* n. 'health, bliss'. Avest. *drva-tāt-* 'durability, soundness' from *drva-* 'durable, sound', *fratema-tāt-* 'sovereignty' from *fratema-* 'first', *hunar^o-tāt-* 'virtue' for **hunar^o-ta-tāt-*, compared with Skr. *sūnṛta-s* 'beautiful, glorious', *ušta-tāt-* 'prosperity, welfare' from *ušta-* 'well-being', *yavae-tāt-* 'eternal duration' from *yavē* adv. 'always', dat. of *yu-* n. 'eternity' (cp. *yurae-ji-* 'ever living').

Remark. From the last word we once find the phrase *yavae-ca tāitē* 'for ever' (usually the word is *yavaetāitē*). Thus *-tāt-* was regarded as a compounded word (this appears also in other ways); and it seems to have been popularly connected with *tan-* 'stretch out'. Cp. Mod.H.G. *brösāme* (O.H.G. *brosmā*), which has no etymological connexion with *sāme(n)*, but has been associated with it; furthermore we find even in Greek *παντ-ό-της* like *παντ-ό-μορφος* and Goth. *mikil-dūp-s* = **mikila-dūp-s* like *gud-hūs* = **guda-hūs* p. 311.

Greek. Here we find only *-τᾶτ-*, which was substituted for the *-tāt-* used in forming abstracts (§ 80 p. 239 f.), and appears only in the combinations *-ο-τᾶτ-* and *-ν-τᾶτ-*. *ὀρθό-της* 'straight-forwardness, rightness' from *ὀρθός*: Lat. *ardui-tās*. *σκαλιό-της* 'awkwardness' from *σκαλιός* 'awkward': Lat. *scaevi-tās*. *κακό-της* 'wickedness' from *κακός*. *ἀγνό-της* 'purity, chastity' from *ἀγνός*. *βίο-της* 'life' from *βίος*. *θεό-της* 'godhead' from *θεός*. *ἐν-ό-της* 'unity' from *εἰς* 'one'. *παν-τό-της* 'totality' from *πᾶς*. Hom. *ἀνδ-ο-τητ-α* acc. 'manhood' (more correctly no doubt *δρωτητ-α*; see I § 204 p. 170) from *ἀνῆρ* *ἀνδρ-ός*. In the last three examples *-ο-* appears as it does in compounds, e. g. *παντ-ό-*

μορφος; cp. also Lat. *libidin-i-tas*. βαρύ-της 'gravitas' from βαρύ-ς; cp. Skr. *guru-tā-* (§ 80 p. 239 f.). γλυκύ-της 'sweetness' from γλυκύ-ς. βραδύ-της (βραδυτής) 'slowness' from βραδύ-ς. ταχύ-της 'swiftness' from ταχύ-ς.

Italic. In Latin we cannot distinguish *-tati-* from *-tāt-*, *-tūti-* from *-tūt-*, since in very many points the consonantal declension was assimilated to that of the *i*-stems. It may have been these very suffixes, with their double forms taken along with such doublets as *noct-nocti-* etc., that helped to establish the confusion. The variation in the gen. pl. (*civitatium* and *civitatum*) is of special importance (§ 93 p. 281).

boni-tas from *bonu-s*. *dūri-tas* from *dāru-s*. *anxie-tas* from *anxiu-s*. *quāli-tas* from *quali-s*. *civit-tas* from *cīvi-s*. *liber-tas* from *liber*. *über-tas* from *über* (in imitation of which was formed *viduertas* from *viduo-s*; notice the parallelism in meaning). *facul-tas* from *facili-s*, with the later by-form *facili-tas*. *volup-tas* from *volupe volup*. *mājes-tas* from *māior* (cp. § 135 Rem. 1). *hones-tas* from *honōs*. *tempes-tas* from *tempus*. *vetus-tas* from *vetus*, or for **vetusti-tas* from *vetus-tu-s*. *voluntās* for **volunti-tas* from *volēns*. *libidin-i-tas* from *libīdō*, cp. Gr. ἐρ-ός-της (see above). Pelign. *Herentas* 'Venus' Osc. *Herentateis* 'Veneris, Volupiae', from *herest* 'volet', formed from the part. pres., like Lat. *voluntās*.

-tūti- *-tūt-* is very much rarer. Lat. *juven-tūs* (: O.Ir. *ōitiu*), *senec-tūs* beside *juven-tas juven-ta*, *senec-ta*, from *juven-i-s*, *senex*. *virtūs* from *vir*. *servi-tūs* from *servo-s*. There can be no doubt that *-tūdō* (gen. *-tū-din-s*), e. g. in *servi-tūdō alti-tūdō*, is closely related to this suffix.

In Old Irish we have *-tūt-*, which we may ascribe to proto-ethnic Celtic. *ōitiu* 'youth': Lat. *juven-tās*; see above, p. 308. *oen-tu* 'unitas' for **oen-thu* (*th* (*þ*) after *n* was replaced by the tenuis by a comparatively late change). *beo-thu* (gen. *be-thath*) 'life'. The suffixes *-atu* *-etu*, in derivatives from adjectives in *-e* (*io*-stems), are especially frequent; as *torbatu* 'utilitas' from *tor-be* 'utilis', *dommetu* 'paupertas' from *domme* 'inops', *oendatu* 'unity' from *oen-de* 'single', *ildatu* 'pluralitas

from *il-de* 'pluralis', *fluchaidatu* 'humiditas' from *fluchaide* 'humidus'; the origin of this -*atu* -*etu* is doubtful¹⁾.

Germanic. It occurs only in Gothic, in certain substantives in -*dūþi-*, derived from adjectives; as *mikil-dūþ-s* 'greatness' from *mikil-s* (*mikila-*) 'great', *gamáin-dūþ-s* 'community' from *ga-máin-s* (*ga-máini-*) 'common'. The loss of the vowel before the suffix is like that in *ga-máin-p-s* (§ 101 p. 307 f.) and in compounds, e. g. *gud-hūs brūþ-faþ-s* (§ 40 pp. 69, 71 f.).

III. Suffixes in -u.

§ 103. The *u*-suffixes have a triple ablaut: *u*, *eu*, *ou* (*e*-series, I § 311—314). *u* e. g. in nom. and acc. sing. masc. fem. *u-s u-m*. *eu* e. g. in nom. pl. masc. fem. -*eu-es*. *ou* in gen. sing. -*ou-s*. The connexion of this ablaut with the original conditions of accent in the different cases cannot be exactly determined from the evidence now at our disposal. No clear explanation has been given of Gr. *tava(f)-ó-ς* compared with *tav-ύ-*, Lat. *grav-i-s* compared with Skr. *a-gr-u-*, Skr. *pythiv-í* compared with *pyth-ú-*, which seem to imply -*eu-* as one of the proethnic forms of the suffix. The best analysis of the words is *tava-fó-ς*, *gra-vi-s*, *pythi-ví*, i. e. to suppose that the root-syllable was extended by *a*, as in *θυγά-τηρ* and the like (I § 110 p. 103 ff.).

From the proethnic period downwards we find *u*-stems in all three genders. The masculine and feminine stems had originally the same inflexion; differences only arose during the development of the separate languages, as in Skr. acc. pl. *sūnān* m. 'sons', *hánūṣ* f. 'jawbones'.

Remark. For *ū*-stems like Skr. *śvañrū-ṣ* O.C.Sl. *svetry* Gr. *véw-ς*, see § 109 Rem. 2.

1) "It is hard to decide whether -*atu* came from -*antu*, or from the union of two dental suffixes (perhaps -*ato-tūt-*). Zimmer (Kuhn's Ztschr. XXVII 461) regards the acc. *corphadid* as a true phonetic spelling (op. I § 212 Rem. p. 179); yet, as he himself remarks, it may be merely a mistake of the scribe's. Mid.Ir. *sochmattu* 'possibility' perhaps supports *t* rather than *d*. Unfortunately the modern Celtic languages have lost the suffix. Personally I incline towards the second assumption; compare e. g. *no-erladaigtis* 'they obeyed' beside *aurlatu* 'obedience'." Thurneysen.

§ 104. The suffix -u-¹⁾. This is always primary, and most common in adjectives. The evidence of Sanskrit, Greek, Germanic and Lithuanian proves that in Indo-Germanic these adjectives were nearly always oxytone and had the root-syllable in the weak grade. But the strong grade must have been at one time regular in a certain number of the cases. It is true that such forms as Skr. *prathú-ś* Lith. *platù-s* beside Skr. *pr̥thú-ś*, Skr. *svadú-ś* Gr. *ῥδύ-ς* O.H.G. *suozī* beside Goth. *sut-s*, cannot be taken to prove this, since a certain amount of assimilation between the forms of the three degrees of comparison (positive, comparative, and superlative) may be assumed in all these cases, and must be assumed in some; but it is fairly shewn by the variation between e. g. Goth. *filu* and Skr. *purú-ś*. Notice also the variation of form within the weak grade itself, e. g. **grr-u-* and **-gr-u* 'heavy' (I § 313 p. 250 f.). The feminine of these adjectives was differentiated by -iē- -ī- in the protoethnic and later periods; e. g. Skr. *tanv-ī* beside the masc. *tan-ú-ś* (see § 110).

The substantives were masculine, feminine, or neuter. The variations of ablaut differed in different words. Note **gon-u-* **gen-u-* **gn-u-* 'knee' and the like, and **pek-ú-* and **-pk-u-* 'cow' (vol. I loc. cit.).

Indo-Germanic. Adjectives. **grr-u-s* **-gr-u-s* (cp. the compar. Skr. *gúr-īyas*): Skr. *gurú-ś* 'heavy, violent, hard' Avest. *gouru-ś* 'adverse' Skr. *a-gru-* Avest. *a-yru-* 'unmarried' ('non grávida'), Gr. *βαρύ-ς* 'heavy' (Lat. *gravi-s* see § 103 p. 311), Goth. *kaúru-s* 'heavy' (I § 290 p. 232). **t̥s-ú-s*, from *√ters-* 'be dry, arid': Skr. *t̥ṣú-ś* 'parched with thirst', O.Icel. *þurr* O.H.G. *durr-i* Goth. *þaúrsu-s* (instead of **þaúr-z-u-s*) 'dry, arid' (cp. I § 582 Rem. 1 p. 435 f.). Skr. *pur-ú-ś* Gr. *πολύ-ς* (cp.

1) O. Weise, De linguarum Indogerm. suffixis primariis, I De adjectivis suffixo -u- formatis, Gotting. 1873. A. Bezzenberger, Eine idg. Accentregel, in his Beitr. II 123 ff. R. Thurneysen, Weibliche u-Stämme im Irischen, Kuhn's Ztschr. XXVIII 147 ff.; Wh. Stokes, Irish feminine stems in u, ibid. 291 f. I. Schmidt, Über das litau. Nominalsuffix -u, Kuhn and Schleicher's Beitr. IV 257 ff.

I p. 306 p. 244). O.Ir. *il* Goth. *fil-u* (n.) 'much', √ *pel-*. Skr. *prth-ú-ṣ* *prath-ú-ṣ* Gr. *πλατ-ύ-ς* 'broad', Gall. *Litu-gena Litu-māra*, Lith. *plat-ū-s* 'broad', beside the compar. Skr. *prāth-īyas-*. **tpn-ú-s* 'stretched, thin' from √ *ten-* 'stretch out, lengthen': Skr. *tanú-ṣ* (*pari-tatn-ú-ṣ* 'encompassing' redupl.), Gr. *τανύ-γλωσσο-ς* 'with tongue outstretched, long-tongued', Lat. *tenu-i-s*, O.Ir. *ian-a*, O.H.G. *dunn-i*, O.C.Sl. *tñü-kū* (from which come on the one hand *tñi-kū*, Czech *tenký*, on the other *tñü-kū*, Russ. *tonkij*). **hṣgh-ú-s* 'quick, small', √ *hṣgh-* in Skr. *rahūya-ti* (I § 454 p. 335): Skr. *raghú-ṣ* Gr. *ελαχί-ς*. **añgh-ú-s* 'narrow', √ *añgh-* 'make narrow, bind together': Skr. *qhú-ṣ*, Armen. *anju-k ancú-k*, Goth. *aggou-s* (instead of **aggu-s*, see p. 316), O.C.Sl. *azū-kū*. Skr. *svad-ú-ṣ* 'sweet, pleasant', Gr. *γδ-ι-ς* 'sweet, pleasant', Lat. *suavi-s* for **suad-u-i-s*, Goth. *sut-s* O.H.G. *suoz-i* A.S. *swēt-e* 'sweet'. Skr. *ās-ú-ṣ* 'swift', Gr. *ώx-ύ-ς* 'swift', Lat. *acu-pediū-s* beside *oc-iōr*.

Substantives. **pek-ú-s* **pk-u-s* m. and **pék-u* n. 'cattle': Skr. *paśú-ṣ* Avest. *pasu-ṣ* 'cattle' Avest. *haurva-fšu-* 'all the cattle' (I § 398 p. 296), Lat. *pecu-s*, with its oblique cases reformed by analogy, on the one hand gen. *pecudi-s* etc. (§ 128), on the other (when *pecus* was regarded as neuter) gen. *pecor-is* etc.; Skr. *páśu*, Lat. *pecu*, Goth. *faihu* ('money'). Skr. *hán-u-ṣ* f. 'jawbone', Gr. *γέρ-υ-ς* f. 'jaw, jawbone', Lat. *genu-ñmu-s* 'belonging to the cheek', O.Ir. *giun* m. 'mouth', Goth. *kinnu-s* f. 'cheek, jawl' instead of **kinu-s* through the influence of *kinn-*, which stands for **kinu-*, cp. I § 469, 8 p. 346 f. Skr. *kēt-ú-ṣ* m. 'phenomenon caused by light, picture, form', Goth. *hāid-u-s* m. 'kind, way'. **bhagh-u-s* m.: Skr. *ba-hú-ṣ* 'arm', Gr. *πᾶχυν-ς πῆχυν-ς* 'fore-arm, something bent' O.Icel. *bög-r* 'something bent'. **medh-u* n.: Skr. *mád-hu* 'sweetness, honey' (the Skr. adj. *mádhu-* was derived from this subst.), Gr. *μέδυν* 'intoxicating drink, wine', O.Ir. *mid* (gen. *meda*) O.H.G. *meto* m. 'mead', Lith. *medū-s* m. O.C.Sl. *medū* m. 'honey'. **gon-u-* **gen-u-* **gn-u-* n. 'knee': Skr. *jān-u* 'knee' *jñu-bād-* 'bending the knees' Avest. *zanv-a* pl. 'knees' *fra-snu* 'knee bent forward' (I § 403 p. 298), Gr. *γόνυ*, *γενυῶν γονάτων* Hesych. (Cp. I § 639 p. 479), *γεν-πετεῖν* 'to sink

on one's knees. become helpless'. Lat. *genu*. Goth. *kniu* (st. *kn-ir-a-*) 'knee' *kn-u-sjan* 'to kneel'.

Aryan. Skr. *par-ú-š* Avest. *pouru-* *par-ao* O.Pers. *par-u-* 'much' (I § 290 p. 231 f.): Gr. *παλ-ι-ς* etc.: see p. 312 above. Skr. *ur-ú-š* Avest. *ouru-š* 'broad' common ground-form **ur-ú-* (I § 157 p. 141): Gr. *εἰρ-ι-ς* 'broad' no doubt for **ε-fer-* with prothetic *ε*: the relation of the Aryan to the Greek form is therefore the same as that of Skr. *gurú-*: -*gru-*. Skr. *rj-ú-š* Avest. *er'z-u-š* 'straight, right'. Skr. *prth-ú-š* Avest. *per'p-u-š* 'broad': Gr. *πλατ-ι-ς* etc., see above p. 313. Skr. *vás-u-š* Avest. *vaoh-u-š* O.Pers. *vahu-* (in the proper name *vahu-ka-*) 'good', the neut. in Skr. and Avest. = 'goods': the substantival use is perhaps older than the adjectival (cp. Skr. *mádh-u-* p. 313): O.Ir. *fiu* 'suitable' or 'suitability' (cp. under Old Irish). Skr. *as-ú-š* Avest. *as-u-š* 'swift': Gr. *ωκ-ι-ς* etc., see above p. 313. Skr. *rlh-ú-š* 'clever, artistic'. *šay-ú-š* 'lying'. *dār-ú-š* 'breaking', *jay-ú-š* 'victorious', *šu-šh-ú-š* 'standing well, in good condition' (*stha-*), *táp-u-š* 'hot', *tār-u-š* 'passing through': *ci-kit-ú-š* 'skilful', *ji-gy-ú-š* 'victorious'; there are many adjectives from desiderative stems, as *di-drkš-ú-š* 'wishing to see' *ci-kits-ú-š* 'clever, crafty', *di-ts-ú-š* 'ready to give'. Avest. *driy-u-š* 'poor', *ja-γauru-š* 'awake, watchful'.

Skr. *iš-u-š* m. f. Avest. *iš-u-š* m. 'arrow'. Skr. *ás-u-š* m. 'spirit of life' Avest. *aoh-u-š* m. 'the world, the sum of living beings', O.Pers. *au-ra-*, § 76 Rem. 1 p. 201. Skr. *bah-ú-š* m. Avest. *bāz-u-š* m. 'arm': Gr. *πῆχ-ι-ς* etc., see above p. 313. Skr. *sindh-u-š* m. f. 'stream, Indus, region of the Indus', Avest. *hind-u-š* m. O.Pers. *hi(n)d-ā-š* 'India'. Skr. *mádh-u* n. Avest. *mađ-u* n. 'sweetness, honey': Gr. *μέθ-ι-*, etc.; see above, p. 313. Skr. *dār-u* n. 'wood, piece of wood, beam, plug' Avest. *dāuru* n. 'wood, spear' Skr. *dar-v-i-š* *dar-v-i* 'spoon' *dr-u-* n. m. 'wood, wooden implements' m. 'tree, branch'. Avest. *dr-u-* n. 'wood, spear': Gr. *δρό-υ* n. 'wood, beam, spear-shaft, spear' *δρῦ-ρόμο-ς* 'cutting wood' *δρῦ-α* n. *δρῦ-ες* f. 'oaks', O.Ir. *daur*, gen. *daro dara*, Mod. Cymr. *derw-en* 'oak', O.Ir. *derucc* 'acorn', Goth. *triu* (st. *tr-iv-a-*) n. 'tree', Lith. *der-v-à* f. 'pine-wood' O.C.Sl. *drěvo* n. 'tree' (pr.

Slav. **der-o-o* *dr-ŭv-o* (usually in pl. *dr-ŭv-a*) 'wood', Idg. **dor-u-* **der-u-* **dr-u-*. We have a corresponding variation of ablaut in another neuter word, Skr. *sān-u-* *sn-u-* n. m. 'peak'. Skr. *bāndh-u-ṣ* m. 'relationship, relation', *aś-ú-ṣ* m. 'stem', *ci-kit-ú-ṣ* f. 'insight, understanding', *párs-u-ṣ* f. 'rib': Avest. *per's-u-ṣ* m. 'rib', *tāl-u* n. 'palate', *tráp-u* n. 'chin'. Avest. *sēvoh-u-* *sēvogh-u-* f. 'instruction'.

Armenian. *barj-r*, gen. *barju* 'high', ground-form **bhr̥gh-u-* *anju-k* *ancu-k* 'narrow', (extended by *-go-*, see above p. 313). *bazu-k* 'arm' has the same addition, compare Skr. *bāhú-ṣ* (see above, p. 313), but the word may have been borrowed from Persian. Other derivatives from *u*-stems: *en-aut* 'jawbone, cheek', beside Skr. *hán-u-ṣ* etc. (see above, p. 313), *cun-r* (pl. *cunk-ē*) 'knee', beside Skr. *ján-u* etc. (see above, p. 313), and other words.

Greek. *θρασ-ύ-ς* 'bold': Mid.H.G. *türr-e* 'bold' Lith. *dras-ù-s* 'bold' (this word like *dras-à* 'boldness' which is closely akin, was modified through the influence of *dris-*; see I § 285 Rem. p. 228), *✓dher-s-*. *βραδ-ύ-ς* 'slow': Skr. *myd-ú-ṣ* 'tender'. *παχ-ύ-ς* 'thick': Skr. *bah-ú-ṣ* 'thick, much', common ground-form **bh̥gh-ú-s*; can we compare Lith. *bing-ù-s* 'stately, stiff, proud' in spite of the palatal *gh* (cp. Avest. *baṣah-* n. 'size, strength')? see I § 467, 2 p. 343. *λυ-ύ-ς* 'clear-sounding', *γλυκ-ύ-ς* 'sweet', *ταρρ-ύ-ς* 'thick' *βαθ-ύ-ς* 'deep', *δασ-ύ-ς* 'thickly overgrown', *ήν-ύ-ς* 'stout, good', *τρᾶχ-ύ-ς* *τρηχ-ύ-ς* 'rough, uneven, rugged', *βροτ-ύ-ς* 'heavy', *ὄξ-ύ-ς* 'sharp, piercing'.

πῆχ-υ-ς m. 'fore-arm, something bent': Skr. *bah-ú-ṣ* m. etc., see above p. 313. *πέλεκ-υ-ς* m. 'axe': Skr. *paraś-ú-ṣ* *parś-u-ṣ* m. 'axe'. *στάχ-υ-ς* *ἄσταχ-υ-ς* m. 'ear of corn'. *γῆρ-υ-ς* m. 'voice'. *γέν-υ-ς* f. 'chin, jawbone': Skr. *hán-u-ṣ* etc., see above p. 313. *ἄρο-υ-ς* f. 'hunter's net'. *μέθ-υ*, *γόν-υ*, *δόρ-υ* n., see above pp. 313, 314. *πῶν* n. 'herd' for **πωι-υ*: cp. Skr. *pāy-ú-ṣ* 'guardian', beside Gr. *ποιμήν* Lith. *pė-mū* 'herdsman' (cp. § 105 Rem. p. 318). *γλάφ-υ* n. 'grotto, cave'.

Italic. We seem to have a trace of the old adjectival *u*-stems in Lat. *idūs* pl. fem. sc. *noctēs*, 'the bright (nights)',

from $\sqrt{ajdh-}$ 'burn, be clear'. Compare also *acu-pedi-u-s* beside Skr. *as-ú-ṣ* Gr. *ἄκτις* 'swift'. The other Latin forms of this class have gone over to the *i*-declension: *grat-i-s*, *ten-u-i-s*, *sudavi-s* for **sudd-u-i-s*, see above pp. 312, 313; and no doubt *levi-s*, *pingui-s*. The form of the feminine (cp. Skr. *tanv-i*) must have had something to do with this change of declension.

Masc. *lac-u-s*: O.Ir. *loch* 'lake' n.: compare Gr. *λάκκο* 'hole, pit', which according to the rule given in vol. I § 166 p. 147 implies a stem **laxx-*. *im-petu-s*, *alg-u-s*, *grad-u-s*. Fem. *trib-u-s* Umbr. *trifo* 'tribum', which can scarcely come from *tri-* 'three' + $\sqrt{bhū-}$; *dom-u-s*: O.C.Sl. *dom-ŭ* 'house'; *ac-u-s*, *col-u-s* (also m.). Neut. *pec-u-* Umbr. *pequo* 'pecua' beside Lat. *pec-u-s*, see p. 313 above; *gen-u* see p. 313 f.; *veru* Umbr. *berva* 'verua' berus 'verubus': O.Ir. *hir* 'sting, spear', common ground-form **ger-u-*; *spec-u* (beside *spec-u-s* m. f.); *gel-u*.

Old Irish. *tiug* (gen. *tig*) 'thick': O.H.G. *dicchi* 'thick, dense' (Goth. **þik-u-s* or **þiq-u-s*). *il* 'much': Skr. *pur-ú-ṣ* etc.; see p. 312 above. *fiu* 'suitable, worthy' or 'suitability' Mod.Cymr. *gwiw* 'proper, fitting, worthy' Gall. *Visu-rîx* pr. kelt. **ues-u-*: Skr. *vás-u-ṣ* *vás-u* (p. 314), see Thurneysen in Kuhn's Ztschr. XXVIII 148 f. *dub* 'black'. *fiuch* 'wet'. From an Indo-Germanic *u*-stem come also *tana* Corn. *tanow* Bret. *tanav* 'thin', cp. (Gr. *tan-v-* *taru-(f)u-* etc., p. 312 f., and § 103 p. 311.

Masculine. *giun* O.Cymr. *genou* Corn. *genau* 'mouth': Skr. *hán-u-ṣ* f. etc., see above p. 313. *mug* 'slave, servant' for **mog-u-s*: Goth. *mag-u-s* 'boy, servant'; *fid* 'tree': O.H.G. *witu* 'wood'. Feminine. *mucc* 'sow', *deug* 'drink'. Neuter. *mid* 'mead': Skr. *mádhū* etc., see above p. 313; *loch* 'lake': Lat. *lac-u-s* m.

Germanic. The adjectival *u*-stems were partly absorbed into the *jo*-declension, the point of connexion being the original feminine formation with *-iē-* *-ī-*. Goth. *kaúr-u-s* 'heavy': Skr. *gur-ú-ṣ* etc., see above p. 312. Goth. *þaúrs-u-s* O.H.G. *durr-i* 'dry, arid': Skr. *tṛṣ-ú-ṣ* etc., see above, p. 312. Goth. *aggu-s* 'narrow' instead of **aggu-s* through the influence of the weak form *aggo-* = Skr. *qhv-*, O.H.G. *eng-i* O.Icel. *qng-r*: Skr. *qh-ú-ṣ* etc., see above p. 313. Goth. O.H.G. *fil-u* (A.S. *fealo*

= pr. Germ. **fal-u*, Fris. *ful* = **ful-u* 'much': Skr. *pur-ú-ṣ* etc., see above p. 312. Goth. *hard-u-s* O.H.G. *hart hert-i* 'hard': Lith. *kart-ù-s* 'bitter'. A.S. *myrz-e* 'lasting a short time' O.H.G. *murg-fari* 'caducus, fragilis, transitorius': Gr. *βραχ-ύ-ς* 'short', common ground-form **mrgh-ú-*. Goth. *tulg-u-s* 'firm', *qairr-u-s* 'soft'. A.S. *spit-u* O.H.G. *spiz* m. 'spear', properly something 'pointed', compared with O.H.G. *spizzi* 'pointed'.

Goth. *mag-u-s* O.S. *mag-u* m. 'boy': O.Ir. *mug* 'slave, servant'. Goth. *hair-u-s* m. 'sword': Skr. *śar-u-ṣ* m. f. 'missile' Goth. *haid-u-s* m. 'kind, way' O.H.G. *heit* m. f. 'persona, sexus, rank, position' A.S. *had* m. 'family, position, nature': Skr. *kēt-ú-ṣ* m. 'phenomenon due to light, picture, form'. A.S. *aelf* Mid.H.G. *alp* (*alb-*) m. 'goblin, elf' was originally, no doubt, an *-u*-stem: Skr. *ṛbh-ú-ṣ* 'artistic, a sculptor'. Goth. *kinnu-s* f. 'cheek' instead of **kinu-s*, A.S. *cin* f. 'chin': Skr. *hán-u-ṣ* etc., see above p. 313. Goth. *hand-u-s* f. O.H.G. *hant* (dat. pl. *hantum*) f. 'hand'. Goth. *falthu* n. 'money' O.H.G. *fih-u* n. 'cattle': Skr. *pás-u* etc.; see p. 313 above.

In Germanic the *u*-inflection of consonantal stems largely increased the number of the substantives in *-u-*; the point of contact is seen in forms like (Goth.) acc. sing. *fōt-u* acc. pl. *fōt-uns*. Cp. § 56 p. 103, § 160, 1, § 161.

Balto-Slavonic. Adjectives in *u*-have survived only in Lithuanian, but there they are very common; and their number was considerably increased by the fact that a parallel form in *-u-s* could be made to any adjective in *-a-s*; e. g. *asžrù-s* § 74 p. 187 f., *gailù-s* § 76 p. 210, *gėdrù-s* beside *gėdra-s*, *drungnù-s* beside *druņgna-s*. Most of the cases passed into the *-jo-* inflection; cp. the Germanic section, p. 316. *platù-s* 'broad': Skr. *prth-ú-ṣ* etc.; see above, p. 313. *dras-ù-s* 'bold': Gr. *δρασ-ύ-ς*; see above, p. 315. *sald-ù-s* 'sweet': O.C.Sl. *sladŭ-kŭ* 'sweet'. *dub-ù-s* 'hollow', *dyg-ù-s* 'prickly', *baug-ù-s* 'timorous', *staig-ù-s* 'hot-tempered', *smag-ù-s* 'malleable'. It is only rarely that the root has the accent, as in *tánk-u-s* 'thick'. The existence of pairs like *drasù-s* 'bold' and *drasà* 'boldness' led to the use of *-u-* as a denominative suffix; e. g. *tamsù-s* 'dark' from

tem-s-ā 'darkness', *czěm-s* 'timely' from *czěm-s* 'time' (a borrowed word). In Slavonic adjectival *u*-stems are found in derivatives with -go-; besides *sladū-kū* we have e. g. *finū-kū qzū-kū* (p. 313).

In Balto-Slavonic the substantives in -u- are all masculine. Lith. *med-ū-s* O.C.Sl. *med-ū* 'honey': Skr. *mādh-u* n. etc.: see above, p. 313. Lith. *virsz-ū-s* 'the upper, outer part' O.C.Sl. *vrich-u* adv. 'above'. Lith. *dang-ū-s* 'heaven' beside *dengmū* 'I cover'. *vid-ū-s* 'the inner part', *al-ū-s* a drink like beer. O.C.Sl. *dom-ū* 'house': Lat. *dom-u-s* (✓*dem-* 'build'), *vol-ū* 'ox', *pol-ū* 'side'. In Slavonic all *u*-stems were inflected as *o*-stems.

§ 106. The Suffix -ju-. This must be regarded as proethnic, even though we cannot point with certainty to any one example which dates from the Indo-Germanic period. It should be noticed how frequently we find -ju- and -io- side by side, as Skr. *vā-yú-š* Lith. *vė-ja-s* 'wind', Gr. *v-íu-ς* and *v-íó-ς* 'son'. Skr. *yáj-yu-š* 'revered as divine' and 'revering, pious' and *yaj-ya-s* 'venerandus'.

Remark. The explanation of Skr. *pāy-ú-š* pr. Gr. **παῖ-υ* (§ 104 p. 315) as containing the suffix -u-, not -ju- (similarly Skr. *stāy-ú-š* *lāy-ú-š* Avest. *lāy-u-š* 'thief' cp. Skr. *stē-nā-s*, Skr. *dhāy-ú-š* 'thirsty' cp. *dhē-nā-*) is based on the hypothesis mentioned in vol. I § 150 p. 136, which would allow us to assume such a root as e. g. **pōi-*, not **pō-*. If this hypothesis be correct, it is natural to conjecture that the suffix -ju- may have sprung from these nouns, **pōiu-* being analysed as **pō-ju-* etc. On this model then were formed e. g. Skr. *vā-yú-š* (Idg. *uē-*), *dhā-yu-š* 'generous' (Idg. *dhē-*), and later on -ju- was added to consonant stems, as Skr. *dās-yu-š*. So far as I can see there is nothing to prevent our assuming that this process took place in proethnic Indo-Germanic.

Aryan. Skr. *dās-yu-š* m., a title both of the gods' enemies, the demons, and of the unbelieving tribes, Avest. *dañhu-š* f. (cp. I § 125 p. 115, § 558 p. 415) O.Pers. *dahyu-* (nom. sing. *dahyāu-š*) f. 'land, district, neighbourhood'. Skr. *man-yú-š* m. 'excited thought, zeal, displeasure, anger' Avest. *mainyu-š* m. 'spirit, genius'. Skr. *vā-yú-š* m. Avest. *va-yu-š* m. 'wind': the Avestic form is no doubt for **uō-ju-*, see I § 109 p. 101. Skr. *mṛ-t-yú-š* m. 'death': perhaps identical with the

Armen. *u*-stem *mark mah* (gen. *marhu mahu*) 'death', see I § 360 p. 276; it is based on a stem *mr-t-*, see § 123.

Skr. *bhuj-yú-ṣ* 'flexible', *śundh-yú-ṣ* 'neat, pure', *dhā-yu-ṣ* 'generous', *sāh-yu-ṣ* 'strong'. The commonest forms are adjectives which are connected with derivative verbs, and mean 'seeking after, desiring something' or 'possessing, performing, exhibiting something' and the like. Examples are *aśvayú-ṣ* 'desiring horses', *śravyú-ṣ* 'ambitious', *dēvayú-ṣ* 'reverencing the gods', *udanyú-ṣ* 'containing water' *vīrayú-ṣ* 'behaving like a hero'; cp. part. *dēvayánt-* 'reverencing the gods' and feminines like *aśvayā* 'desire for horses'. Avest. *anhu-yu-š* a proper name, beside *anhuymī* 'I govern' *anhuḡd-* f. government'.

Armenian. Perhaps we should class here *mark* 'death'; see above, under Aryan.

Greek. Lac. Arcad. *v-iv-ς* 'son', Cret. *v-iv-ς*, Att. *iv-ς* (inser.), Hom. gen. *viōs* etc., beside *viō-ς vō-ς*, which can scarcely have come from the former by dissimilation: cp. Skr. *su-ta-s* 'begotten, son' (cp. W. Schulze, De reconditoribus quibusdam nominum in *-YΣ* exeuntium formis, Commentationes philologicae Gryphiswaldenses, Berol. 1887, p. 17 ff.).

According to Wackernagel (Kuhn's Ztschr. XXIV 295 ff., XXVII 84 ff.) substantives in *-iv-ς* like *νομεύς* 'herdsman' (nom. pl. Cypr. *-ῆf-ες*) also belong here, and should be compared immediately with the Sanskrit nouns in *-ayu-ṣ*. Yet some difficulties still remain; should we, for instance, assume Idg. *-eiṇ-s* or *-ēiṇ-s* for the nom. sing.? The latest discussion of these stems is by Johansson (De derivatis verbis contractis linguae Graecae, 1886, p. 73 ff.).

Germanic. Goth. *drun-ju-s* m. 'noise', *stub-ju-s* m. 'dust', (cp. O.H.G. *stuppe* 'dust'); perhaps also *-vaddju-s* f. 'partition, wall, rampart' (O.Icel. *vegg-r*, O.Sax. acc. pl. *wegos* i. e. *weijos*), where *ddj* came from *ī* (I § 142 p. 127).

Baltic. In Lithuanian *-ju-* is common, both in primary and secondary use. It forms only masculines. *gỹr-iu-s* 'praise, glory', *vỹr-iu-s* 'eddy', *skỹr-iu-s* 'separation', *vỹ-lu-s* 'enticement, trick' *spēcziu-s* 'swarm' cp. *spēcziũ* inf. *spěsti* 'to swarm' (of bees).

There a large number of *nomina agentis*, as *pirđiu-s*, 'peditor' *sūkcziu-s* 'trickster', *audėju-s* 'weaver', *rācziu-s* 'wheelwright', *bezďalu-s* 'who sends forth many blasts', and other appellations of living beings to denote a particular characteristic, as *skar-mālu-s* 'scamp' (*skar-ma-la-s* 'rags torn off') *bėdėiu-s* 'poor creature' (*bėdė* 'need'), *kytrūlu-s* 'wiseacre, coxcomb' (*kytrū-s* 'clever'), *ragūcziu-s* 'horned thing' (*ragūta-s* 'horned'). In Lithuanian *-ju-* was far more fertile than in the other European languages. Brückner assumes that the whole group of nouns in *-ju-* is a purely Lithuanian formation (Archiv f. slav. Phil. III 254 f.), but this is improbable.

§ 108. The suffix *-nu-* (*-ṇu-*). This is rare in most of the languages. It usually forms substantives.

Indo-Germanic **sǵ-nu-s* m. 'son': Skr. *sūnú-ṣ* O.H.G. *sunu* Lith. *sūnù-s* O.C.Sl. *synū*.

Aryan. Skr. *sū-nú-ṣ* Avest. *hunu-š* m. 'son': Lith. *sū-nù-s* etc., see above. Skr. *bha-nú-ṣ* 'gleam, sun' Av. *ba-nu-š* m. 'gleam, light'. Skr. *dhē-nú-ṣ* f. 'milch cow' Avest. *daṣ-nu-s* f. 'female' (of animals). Skr. *dā-nu* Avest. *dā-nu* n. 'trickling moisture, dew', also Skr. *dā-nu-ṣ*. Skr. *vag-nú-ṣ* m. 'sound, cry', *sthanú-ṣ* m. 'stick, stump'; *dhṛṣ-nú-ṣ* 'bold', *gṛdh-nú-ṣ* 'eager, greedy'. Avest. *taf-nu-š* m. 'heat, heat of fever', *bar'š-nu-š* f. 'peak, height'; *zaṣ-nu-š* 'equipped'.

In Sanskrit we find also *-anú-*, as *krand-anú-ṣ* m. 'bellowing' *nad-anú-ṣ* m. 'din', *vi-bhañjanú-ṣ* 'breaking to pieces'. This *-anú-* is parallel to *-anī-*, as is shewn by *kṣip-anú-ṣ* 'missile' *kṣip-anīṣ* 'a cut with a whip'. Hence no doubt it should be derived from *-ṇu-*. See § 95 p. 285.

Forms like *ky-t-nú-ṣ* 'active' (*lōka-kyt-nú-ṣ* and *lōka-kṛ-t-* 'making a clear space', see § 123) gave rise to the fairly common adjectival suffix *-tnu-* (cp. *-t-van-* § 116 and the like): *dar-tnú-ṣ* 'breaking to pieces', *dravi-tnú-ṣ* 'running', *mādayi-tnú-ṣ* 'intoxicating'.

The adjectival suffix *-snu-* was no doubt derived from more than one typical form. *kraviṣṇú-ṣ* 'greedy of raw flesh' (*kraviṣ-* 'raw flesh'), *rōciṣṇú-ṣ* 'shining' (*rōciṣ-* 'light'); *caviṣṇú-ṣ*

'wandering', *gamiṣṇú-ṣ* 'going', *cyāvayīṣṇú-ṣ* 'setting in motion', *jīṣṇú-ṣ* 'victorious', *nī-ṣatsnū-ṣ* 'sitting down'. *vadhasnū-ṣ* 'carrying a murderous weapon' beside *vadhasnū-m* 'murderous weapon' (see § 66 p. 142), as Avest. *zaṇnu-ṣ* 'equipped, beside *zaṇne-m* 'equipment, weapon'.

Greek. Here *-vv-* is very rare. Hom. *δοῦ-vv-ς* 'footstool' beside Att. *δοῦ-vo-ς* 'seat, bench'. *λυ-vv-ς* 'smoke, vapour'.

Italic. The suffix is rare. Lat. *ma-nu-s* f., Umb. *manuv-e* 'in manu', no doubt standing for **mā-nu-*, from *✓mē-* 'measure'. Lat. *cor-nu* n. and *cor-nu-s* beside the rare *cor-no-* n.: Gall. *κάρ-vv-ξ* (schol. Iliad, Σ 219, Eustath. 1139, 57) beside *κάρ-vo-v* acc. 'trumpet' (Hesych.), Goth. *haur-n* n. 'horn' (§ 66 p. 147); cp. Danielsson, Pauli's Altital. Stud. III 188. *pī-nu-s* f., also *pī-no-* f., cp. Gr. *πί-τυ-ς*. The dative *vēnuī* beside *vēnō vēnu-m* from **ves-no-* or **vēs-no-* (§ 66 p. 142 under Armenian) is certainly a late change of declension.

Old Irish. *lī-n* 'number' ground-form **plē-nu-*. Cp. also *orgun* *orcun* f. 'killing, to kill' for **orgonu* **orgunu* according to Stokes, Kuhn's Ztschr. XXVIII 291; but **orgund-* might equally be assumed as its original form.

Germanic. Goth. *su-nu-s* O.H.G. *sunu* O.Icel. *sun-r* m. 'son': Skr. *sū-nū-ṣ* etc., see p. 319 above. Goth. *haur-nu-s* m. 'thorn' beside the *-o-*stems O.H.G. *dorn* O.Icel. *þorn*; there is, however, no reason why we should not assume that **þur-nu-* was the pr. Germ. form; O.C.Sl. *trī-nū* may also be an original *u-*stem, but note Skr. *tī-ṇa-m* 'stem of grass'. Goth. *asilu-qairnu-s* f. *μυλός ὀνικός*, millstone' (its suffix may be compared with that of O.C.Sl. *žrī-ny* f. 'mill') beside O.H.G. *chuir-na* 'millstone, mill' O.Icel. *hver-n* 'mill', Lith. *gīr-nos* pl. 'millstones, mill'.

Balto Slavonic. Lith. *sū-nū-s* O.C.Sl. *sy-nū* m. 'son': Skr. *sū-nū-ṣ*, see above p. 319. O.C.Sl. *di-nū* m. 'rank, order', beside Skr. *ci-tā-* 'ranged, trooped'. In Lithuanian there are a few adjectives, which however may be simply modifications of forms in *-na-* (see p. 317): e. g. *drung-nū-s* 'lukewarm' (beside *druņg-na-s*), *gad-nū-s* 'useful', *szvel-nū-s* 'tender, soft to touch'; with *-s-*, *dā-snū-s* *do-snū-s* 'generous'.

§ 107. The Suffixes *-ru-* and *-lu-*. These are original in a few nouns. They are more or less fertile in Baltic as adjectival suffixes.

Indo-Germanic. *-ru-*. **dak-ru* n. 'tear': Gr. *δάκρυ*, Lat. *dacru-ma lacru-ma lacri-ma* (I § 369 p. 279 f.), Corn. *dagr* pl. *dagrou*; hence no doubt Germ. **táxra-* (O.H.G. *zahhar* O.Icel. *tár*) and **tagrá-* (Goth. *tagr* A.S. *teazor*) originally had *-ru-*; another word which no doubt was formed in imitation of this, though from a different root, is Skr. *ás-ru* n. 'tear', ep. Skr. *kṛ-mi-ś*: ep. Lat. *ver-mi-s*: ep. Gr. *ἐλ-μυ-ς* § 97 p. 289. Skr. *śmaśru* n. 'beard, moustache' for **smaś-ru* (I § 557, 4 p. 413), Armen. *moruḱ* (*mōru-ḱ muru-ḱ*) 'beard' (though this comparison is not quite certain); compare Lith. *smak-rà* 'chin' (I § 467 p. 343).

-lu-. Skr. *dha-rú-ś* 'sucking' Gr. *ἑλ-λν-ς* 'giving suck, female', beside Gr. *ἑλ-λή* 'mother's breast' Lat. *fē-lāre* etc., see I § 256 p. 210. Skr. *bhī-rú-ś* *bhī-lu-ś* Lith. *bai-lū-s* 'timorous'.

Aryan. Only the evidence of the cognate languages can decide whether the suffix is Idg. *-ru-* or Idg. *-lu-*. Idg. *-ru-* may be assumed in: Skr. *ás-ru* Av. *as-ru* n. 'tear' beside Skr. *aś-rá-m* 'tear' (see above), and Skr. *śmaś-ru* n. 'beard' (parallel to this we find *hári-śmaśaru-s* 'with light coloured beard'); see above.

In the following instances it is doubtful whether we have Idg. *r* or *l*. Skr. *pē-ru-ś* no doubt meaning 'making to bubble, swell'. Avest. *duž-vandru-ś* 'desiring evil'. Skr. *patá-ru-ś* 'flying', like *pata-rá-s* § 74 p. 182. Skr. *vandā-ru-ś* 'praising, glorifying', *plā-ru-ś* 'despising, scorning', *pataya-lú-ś* 'flying'. Is *śát-ru-ś* 'foe' = *śát-ru-* or *śát-tru-*?

Greek. *δάκρυ* n., see above. *κάρυον-ς* f. *κάρυον* (*κάρυον*) n. 'roasted barley' and *βότρυ-ς* m. 'bunch of grapes' may be classed here provisionally.

Italic. Extended by *-ma-*: Lat. *dacru-ma* (see above). Perhaps we should class here *tonitru-s* m. *tonitru* n., whose formation seems to resemble that of Skr. *stanayi-tnú-ś* (compare § 106 p. 320) and *tanyatú-ś* 'thunder' (§ 108).

Germanic. Goth. *ái-ru-s* O.Icel. *ǫ-r-r* *á-r-r* m. 'messenger'.

ei- 'go'; also A.S. *ar* 'messenger', which is no longer recognizable as an *u*-stem. Goth. *huh-ru-s* m. and O.H.G. *hungar* (of which the same may be said) 'hunger', pr. Germ. **hūnax-ru-z* and **hūnax-ru-s*. Pr. Germ. **flō-ru-* Mid.H.G. *fluor* m. f. 'corn-field, ground' A.S. *flōr* m. f. 'house-floor, barn-floor': O.Ir. *lār* 'flooring, floor'.

Balto-Slavonic. In Lithuanian there are a considerable number of adjectives in *-rū-s* and *-lū-s*: *bud-rū-s* 'watchful', *suk-rū-s* 'active', *kant-rū-s* 'patient', *ėd-rū-s* 'ravenous' (*ėd-rū* 'fodder') *isz-matrū-s* 'sharp-sighted' (cp. O.C.Sl. *mot-r-iti* 'to look'), *buk-lū-s* 'crafty, sly' *isz-teklū-s* *isz-tenklū-s* 'sufficing'. Parallel to these we sometimes have forms in *-ra-s* *-la-s*, as *gėd-rū-s* and *gėd-ra-s* 'bright, clear', and *gai-lū-s* *gai-la-s* 'ill-tempered, snappish' (of dogs). The *a*-form appears in most cases to be older than the other, and it must sometimes be pre-supposed, even where it does not occur, e. g. in *asztrū-s* 'sharp' beside O.C.Sl. *ostrū* Skr. *catur-aśra-s* Gr. *ἄρτος* (§ 76 p. 184 and p. 187).

§ 108. The Suffix *-tu-*¹⁾. This was a common primary suffix used in forming abstract substantives (verbal nouns, *nomina actionis*) even in the proethnic period. These were masculine; but through the influence of the gender of other abstract nouns, they became feminine universally in Greek, and sometimes in Aryan and Germanic. In Aryan, Latin, Balto-Slavonic (and Keltic, see § 156) they are found attached to the verbal system as infinitives (gerunds, supines); and it is possible that this association with the verb, which gave rise to a large number of new formations, began at least in part before the end of the proethnic period. And in this connexion it is especially important to observe that we find the acc. *-tu-m* used after verbs of motion in precisely the same way in Sanskrit, Latin, and Balto-Slavonic; e. g. Skr. *hótum eti* 'he goes make sacrifice',

1) Th. Benfey. Die Suffixe *tv*, *tu* sammt *ātu*, Kuhn's Ztschr. II 215 ff.

Lat. *cubitus* it, Lith. *eĩksz vūlgytū* 'come and eat', O.C.Sl. *ěeso izidoste vidětū?* 'quid exiistis visum?'³

Only a few masculine and feminine substantives formed with this suffix are other than *nomina actionis*, and their uses can easily be derived from the meaning of an abstract verbal noun. The *nomina agentis* (as Skr. *mán-tu-š* m. 'counsellor' beside *mántu-š* m. 'counsel, advice', Goth. *hliftu-s* m. 'thief', O.Icel. *vörð-r* m. 'watcher, waiter' beside *vörð-r* m. 'watch') show the same change of meaning as Lat. *hosti-s* O.Ir. *táid*; and the few adjectives that occur (as Skr. *tápya-tū-š* 'hot, glowing') are parallel to such forms as Skr. *pū-ti-š* 'stinking'. Cp. § 99 p. 293, §§ 149. 155.

There are a few neuter substantives as Skr. *vás-tu* Gr. *ᾠσ-τν*.

Originally the accent varied in the different cases in connexion with differences in ablaut, e. g. **éi-tu-* **i-tu-* (from **ei-* 'go'); such a distinction is preserved in Skr. **ē-tu-m: i-tv-ā*. In Sanskrit the variation survived in these cases, which had been incorporated into the verbal system, because, through the difference in their use, their connexion in form was forgotten, but in the complete declension of any one noun the differences were levelled; in some cases the type **ei-tu-* was adopted (e. g. *mántu-š*), in others **itu-* (e. g. *ṛtū-š*). Other survivals of the old gradation are seen in (e. g.) Gr. *κλει-τν-ς* and *κλι-τν-ς*, Lith. *lẽ-tu-s* and *ly-tū-s*. In Latin and Lithuanian the supine was influenced by the *to*-participles and the abstract nouns in *-ti-*, so that the type **itu-* prevailed: e. g. Lat. *da-tu-m da-tū* like *du-tu-s (da-to-s) da-tiō*, Lith. *mĩlsz-tū* like *mĩlsz-ta-s mĩlsz-ti* (✓ *melg-*). On the other hand, the corresponding form in Slavonic generally shows the type **eitu-* and itself influenced the *ti*-infinitive (e. g. O.C.Sl. *mĩls-tū* and *mĩls-ti*); this is certainly connected with the comparative disuse of the *-to*-participle in this group of languages (§ 79 p. 336).

These nouns could be based upon any form which served as a verbal stem, not merely on the root (in the strict sense); hence forms like Skr. *vámi-tu-m* inf. 'to vomit'. Lat. *vomi-tu-s* m., Skr. *jīvā-tu-š* f. 'life' (cp. Av. *jyā-tu-š* f. 'life'), Gr. *βον-τν-ς*

f. 'cry', Lat. *appara-tu-s* m. *andī-tu-s* m., O.Ir. *scarad* 'a severing' Goth. *vratō-du-s* m. 'journey', Lith. *jėszkó-tū* O.C.Sl. *iska-tū* 'to seek'.

-e-tu- is found like *-e-to-* § 79 p. 219 and *-e-ti-* § 100 p. 294), e. g. Skr. *kr-á-tú-ṣ* 'power, strength' *vah-a-tú-ṣ* m. 'bridal procession', Gr. *ērv-mo-s* 'truthful' from **ē-rv-* instead of **h-ετ-v-* 'existence' (✓ *es-*).

Indo-Germanic. Skr. inf. *bhāvi-tu-m* gerund *bhū-tv-d* from *bhāva-ti* 'he becomes, is', Lat. *fu-tu-ō*, sup. Lith. *bū-tū* O.C.Sl. *by-tū* 'to be'; we may add, with hesitation, Gr. *qī-rv-s* 'begetter' *qī-rv* 'shoot, scion' (see I § 56 p. 46). Skr. *juṣ-tv-a* gerund of *jōṣa-ti* 'has pleasure in something', Lat. *gūs-tu-s* m., Goth. *kus-tu-s* m. 'trial, proof'. Skr. *pi-tú-ṣ* m. 'sap, drink, food' nourishment' *pītu-dāru-* m. 'pine tree' n. the resin of this tree, Gr. *πί-rv-s* 'pine', Lat. *pītu-ita*, O.Ir. *i-th* m. 'corn', Lith. *pė-tūs* pl. 'midday meal, midday'. Skr. inf. *vēttu-m* *vēttav-ē* ger. *vitto-d* from *vinda-ti* 'finds, becomes possessed of', *vēdi-tu-m* *vidi-tv-d* from *vētti* 'perceives, knows' (the root is the same), Lat. *visu-s* m., O.Ir. *fiss* m. 'knowledge'. Avest. *pešu-ṣ* m. 'ford' (*-ṣ-* for *-rt-*, see I § 288 p. 229 f.), Lat. *por-tu-s* m., O.H.G. *fur-t* m. 'ford' (it has lost its character as a *u*-stem) O.Icel. *fjörð-r* m. 'firth, gulf'. Skr. *gān-tu-ṣ* *gā-tú-ṣ* m. 'course, way', inf. *gān-tu-m* *gān-tav-ē* ger. *ga-tv-d*, Lat. *ad-ven-tus* m., sup. *ven-tu-m* *ven-tū*, Lith. sup. *gim-tū* 'to be born' (cp. I § 249 p. 204), ✓ *gem-*. Skr. *mān-tu-ṣ* m. 'counsel, counsellor' inf. *mān-tav-ē* ger. *ma-tv-d*, Lith. sup. *miñ-tū* 'to think of', ✓ *men-*. Skr. inf. *śāsi-tu-m* ger. *śas-tv-d* from *śāsa-ti* 'he recites', Lat. *censu-s* m. instead of **cens-tu-s* (cp. § 100 p. 295), ✓ *kens-*. Skr. inf. *pāk-tum* *pāk-tav-ē* ger. *pak-tv-d* from *pāca-ti* 'cooks', Lat. *coc-tu-m* *coc-tū*, O.C.Sl. sup. *peštī* 'to bake' for **pek-tū* (I § 462 p. 338). Lat. sup. *rēc-tu-m* *rēc-tū*, O.Ir. *rech-t* n. 'right', O.Icel. *rētt-r* n. 'right'. Skr. *dhā-tu-ṣ* m. 'constituent part, element', inf. *dhā-tu-m* ger. *dhi-tv-d* *hi-tv-d*, Lat. *con-ditu-s* m. sup. *con-ditu-m* *-ditū*, sup. Lith. *dē-tū* O.C.Sl. *dē-tū* 'positum'. Skr. *aktū-ṣ* m. 'salve, light, night' ground-form **ṛq-tú-s*, Lat. *ūnc-tu-m* *ūnc-tū*. Skr. inf. *āp-tu-m* ger. *āp-tv-d* from *āp-nō-ti* 'attains, gains', Lat. *ad-eptu-s* m. Skr.

vās-tu n. 'dwelling-place, house', Gr. *faō-rv* *āō-rv* n. 'city'. Skr. *yā-tu-š* m. 'traveller, time' (no doubt identical with *yātū-š* 'ghost', see below), Lith. *jō-tū* 'to ride'. Lat. sup. *nō-tu-m* *nō-tū* (*ignō-tu-m* *ignōtū*), O.C.Sl. sup. *zna-tū* 'to know'.

Aryan. Skr. *pi-tū-š* m. 'sap, drink, food, nourishment' Avest. *pi-tu-š* m. 'food': Gr. *nī-rv-ς* etc., see above p. 325. Skr. inf. *car-tu-m* *cari-tu-m* ger. *cīr-tv-ā* *car-tv-ā* *cari-tv-ā* from *cāra-ti* 'goes, travels', Avest. *car'-tu-š* m. 'horse's course, distance a horse can gallop'. Skr. *gān-tu-š* *gā-tū-š* m. 'course, way', Avest. *ga-tu-š* 'place, room, throne' O.Pers. *gāpu-* 'place, room, throne' (*p* arose regularly in the cases which had *gā-pu-* — see I § 473 p. 348 f. — and from these it spread to the rest): Lat. *ad-ven-tu-s* etc., see above p. 325. Skr. *jan-tū-š* m. 'creature, being, child, people, family, stock', Avest. *zan-tu-š* m. 'alliance, stock', Skr. inf. *jāni-tōš*, adv. *jā-tu* 'generally': Lat. *geni-tu-s* m., sup. *geni-tu-m* *geni-tū*, *nā-tu-s* m., $\sqrt{\text{gen-}}$. Skr. *dā-tu* n. 'part, task' Avest. *vī-dātu-š* m. 'breaking up of the body, dissolution, death', beside Skr. *dā-ti* *dyā-ti* 'cuts off': cp. Gr. *ῥαι-rv-ς* 'meal' (orig. 'portion') *ῥαι-rv-uóv* 'guest'. Skr. *sē-tu-š* m. 'connexion, bond, chain, bridge; binding' (adj.), Avest. *haē-tu-š* m. 'ford, bridge': Lett. sup. *si-tu* 'to bind', $\sqrt{\text{sai-}}$. Skr. *yā-tū-š* Avest. *yā-tu-š* m. 'ghost, demon', no doubt (like *yātu-* above) from *yā-* 'go, fall upon something' (cp. *yā-tār-* 'pursuer'). Skr. *ṛ-tū-š* m. 'fixed time', *tān-tu-š* m. 'cord' (was O.Ir. *tēt* Mod.Cymr. *tant* 'string' an *u*-stem?) *ō-tu-š* m. 'woof'; *sū-tu-š* f. 'pregnancy' inf. *sū-tav-ē* ger. *sā-tv-ā*: O.Ir. *su-th* n. 'fetus'. Avest. *mer'-tu-š* m. 'thought'; *jyā-tu-š* f. 'life'. Skr. *jīvā-tu-š* f. 'life' (no doubt with the same *ā* as Avest. *jyā-tu-š*; though we might also regard it as *ā* = Idg. *o*, cp. Lith. *gyva-tà* O.C.Sl. *živo-tū* Gr. *βίο-το-ς*), inf. *ā-švā-sayi-tu-m* 'to cause to breathe again, console' from *ā-švās-aya-ti* 'makes to breathe again, consoles'.

With *-e-tu-*: Skr. *kr-ā-tu-š* m. 'power, strength, power of mind', Avest. *xr-a-tu-š* m. 'understanding, insight', from *kar-* 'set at work'. Skr. *vah-a-tū-š* 'bridal procession', *tan-ya-tū-š* m. 'thunder', *tap-ya-tū-š* 'hot, glowing'. Avest. *r-a-tu-š* 'fixed time' beside Skr. *ṛ-tū-š*.

In classical Sanskrit the accusative, in Veda also the dative and genitive-ablative served as infinitives; e. g. *śrō-tu-m*, *śrō-tav-ē*, *śrō-tōṣ*. The formation of compounds like *śrōtu-kama-* 'desire to hear' shows that even in later times the feeling that the form in *-tum* was a case had not quite died out. The instrumental (*śru-tvā*, orig. 'with hearing') was used as the (so-called) gerund, logically connected with some noun in the sentence to denote an action accompanying or (generally) preceding the action of the verb, e. g. *śrutvā cābruvan* (*ca abruvan*) 'and hearing (or having heard) they spoke'. All such forms could be used in this way, except those derived from thematic stems (*kr-ā-tu-* etc.).

Armenian. Amongst the *tu*-stems (e. g. *zar-d*, gen. *zar-du* 'adornment') there seem to be none which can be ascribed with certainty to proethnic Indo-Germanic. Hübschmann (Arm. Stud. I 46) with some hesitation connects *ort*, gen. *ortu*, 'calf' with Skr. *prthu-ka-s* 'the young of an animal, child, boy' (Gr. *πόρ-τι-ς* *πόρ-ταξ* 'calf').

Greek. The Substantives in *-τυ-ς*, except the late form *φι-τυ-ς* (p. 325), are all feminine, and occur for the most part in the Ionic dialect. *κλι-τύ-ς* *κλει-τύ-ς* 'slope, hill': Skr. *śri-tv-ā* ger. of *śráy-a-ti* 'leans'. *πί-τυ-ς* 'pine': Skr. *pi-tú-ṣ* etc., see p. 325 above. *ῥ-τυ-ς* 'circumference, circle of a wheel, felloe', Lat. *vi-tu-s* m., sup. Lith. *vỹ-tũ* O.C.Sl. *vi-tũ* 'to wind'. *βρω-τύ-ς* 'food, meal': Lith. *gér-tũ* 'to drink'. *γραπ-τύ-ς* 'a scratch', from *γράφω*. *ἀρ-τύ-ς* 'bond': Lat. *ar-tu-s* *ar-tu*. *ἀπ-αστύ-ς* 'absence'. *δα-τύ-ς* 'meal'. *ἀπο-δαστύ-ς* 'division'. *κτιστί-ς* 'founding' from *κτίζω*, *ἀκοντιστύ-ς* 'javelin-throwing, fight with missiles', from *ἀκοντίζω*, *ληιστύ-ς* 'making of booty' from *ληίζομαι*, *φραστύ-ς* 'reflection' from *φράζω*, *ἀσπαστύ-ς* 'greeting' from *ἀσπάζομαι*, cp. Germ. *-assu-s* from verbs in *-atjan* p. 331. *ἀρπακτύ-ς* from *ἀρπάζω* fut. *ἀρπάξω*. *ἀγορητύ-ς* 'harangue' from *ἀγορεύομαι*, *βοητύ-ς* 'cry, call' from *βοάω*, *ποθητύ-ς* 'desire' from *ποθέω*.

Neuters: only *φι-τυ* and *ἄσ-τυ*, see above pp. 325, 326.

In the other Indo-Germanic languages, we find numerals in *-ti-s*, as **penq-ti-s* f. 'fivefold character, the number five'

(§ 101 p. 306 f.). The corresponding forms in Greek are feminines in *-tv-ς*; as *πεντηκοστῆς*, *ἐκατοστῆς* *τρίτης* (*τριτῆς* is due to the influence of *τρίτος*) also *τεταρτίς* *τετρατῆς*, cp. Baunack, Kuhn's Ztschr. XXV 249 ff.

ἔτυ-μος 'truthful' from **ἔτυ-* 'existence' (instead of **h-ε-τυ-*, cp. Dor. *ἔντες*, Lesb. *ἔσσα*) ground-form **s-e-tu-*, from *√es-* 'esse'.

Italic. The Substantives in *-tu-s* are masculine. Lat. *ac-tu-s*, Umbr. *ahtu* 'actui'. Lat. *adi-tu-s*: Skr. *svāitu-ṣ* (*svā-ētu-ṣ*) 'having its own course' inf. *ē-tu-m* ger. *i-tv-d*, Lith. *ei-tū* O.C.Sl. *i-tū* 'to go'. *rūc-tu-s*: Lith. *rūk-tū* 'to belch', *√reyg-*. *duc-tu-s*. *or-tu-s*. *morsu-s* beside *mordeō*. *ē-ven-tu-s*: Skr. *gān-tu-ṣ* etc., see above p. 325. *sēnsu-s* beside *sent-iō*. *con-spectu-s*. *tex-tu-s*: 'Lett. *tes-tu* 'to hew with an axe'. *ēsu-s*: Skr. *āttu-m* 'to eat', Lith. *ēstū* 'to devour', O.C.Sl. *justū* 'to eat', *√ed-*. *sta-tu-s*, sup. *sta-tu-m* *sta-tū*, *prae-stitu-m* and *prae-statu-m*: Skr. inf. *sthā-tu-m* ger. *sthi-tv-d* from *tīṣṭhā-ti* 'he stands', Lith. *pa-stotū* 'to become' O.C.Sl. *sta-tū* 'to place oneself'. *sa-tu-s*: Lith. *sē-tū* 'to sow'. *fē-tu-s*. *cap-tu-s*. *rap-tu-s*. *can-tu-s*. *quaes-tu-s*. *auc-tu-s*: Lith. *auk-tū* 'to grow', *√aug-*. *haus-tu-s*. *flā-tu-s*. *flē-tu-s*. *gemi-tu-s*. *fremi-tu-s*. *strep-i-tu-s*. *crepi-tu-s*. *domi-tu-s*. *habi-tu-s*. *exerci-tu-s*. *conā-tu-s*. *ap-paratu-s*. *audī-tu-s*. *vesti-tu-s*. Words like *jūdicātu-s* (*jūdicare jūdex*) gave rise to an independent suffix *-ātu-* for denoting an office or an official organisation, as *principātu-s*, *ducātu-s*, *pontificātu-s*, *senātu-s* (cp. German. *-ōpu-* *-ōdu-*).

The *tu-*stems (i. e. the so-called supines) form a very large group in Latin. *-tu-m* was orig. acc., *-tū* loc. or instr. Most of the substantives in *-tu-s* were also used as supines, e. g. *ēsu-s* 'eating' and *ēsu-m* *ēsū*; on the other hand, it is only a small proportion of the supines beside which we find independent declinable substantives. The freedom with which supines were formed was practically unlimited.

The gender of the neut. subst. *ar-tu-* beside masc. *ar-tu-s* was no doubt fixed by that of *membru-m*, and *testu-* n. (**ters-tu-*, *√ters-* 'dry') by that of *testu-m* (stem *testo-*).

Old Irish. Masculines. *bi-th*, gen. *betho*, 'world'; Mod.Cymr.

by-d, Gall. *Bitu-rīgēs* ('world-kings'): Lith. *gy-tū* 'to revive' O.C.Sl. *ži-tū* 'to live', √ *gei-*. *i-th* 'corn': Skr. *pi-tū-ś* etc., see above p. 325. *fiss* 'knowledge, knowing', ground-form **uid+tu-*: Skr. *vēthu-m* etc., see above *ibid.* *gu-th* 'voice'. *cru-th* 'form' *mess* 'judging, judgement' beside *midur* 'I judge'.

Neut. *su-th* 'fetus': Skr. *sū-tu-ś* f. 'pregnancy'. *sru-th* 'stream', √ *srey-*. *rech-t* 'right': Lat. sup. *rēc-tu-m* etc.; see above p. 325.

Like *fiss* and *mess*, the numerous masculines in *-ad* (for *-ā-tu-*) formed from verbs of the 2. conj. are used as infinitives (cp. § 156), as *nertad* 'strengthening' from *nertain* denom. verb from *nert* 'strength' (cp. Gr. *ἀγορῆς*, Lat. *cōnatu-s*), and similarly those in *(i)ud* (for *-(i)e-tu-*) formed from verbs of the 3. conj., as *derchoinud* 'despair, despairing' from *der-choinim* 'I despair', *foillsigud* 'showing' from *foillsigim* 'I show' (cp. Skr. *vaha-tū-ś anyā-tū-ś*).

-tu- is a secondary suffix in the termination *-es-tu-* (*-os-tu-*). *ais aēs ois* (gen. *aisso aisa aesa*) m. 'age' ground-form **āiges-tu-s*, cp. Gr. *αἰ(ς)ές* 'always'; yet Mod.Cymr. *oes*, since *u* is not usually lost in Cymric, perhaps indicates that the word is to be derived from a stem corresponding to the Skr. *āyus-*, which afterwards, we must assume, was confused with the *es*-stem. *senchas* m. 'antiquity' (O.Cymr. *hencass*, pl. *hencassou* 'old tale') may be an extension of **seno-go-* (cp. Skr. *sana-kā-s* etc., § 88 p. 263), the ground-form being **seno-q-os-tu-*, or a compound **seno-cassu-*. *dorus* n. 'door' (cp. Mod.Cymr. *drws* Corn. *daras*), dat. pl. *doirsib* for **doressaib*, and therefore from a stem **dyores-tu-* in proethnic Keltic. *follus* 'clear'.

Germanic. In West Germanic most of the *tu*-stems (which were common in proethnic Germanic) lost their distinctive character; there was a confusion between the (masc.) *tu-* and the (fem.) *ti*-stems, e. g. O.H.G. *luf-t* m. and f., A.S. *lyf-t* m. and f. The original form of the *tu*-stems is best preserved in Gothic.

O.H.G. *fri-du* A.S. *fri-thu* m. 'joy' pr. Germ. **fri-þu-z*, from Germ. *frī- fri* 'cherish, spare' (which appears in Goth. *freidjan* 'to spare' and other words. Goth. *li-þu-s* m. 'limb', cp. O.Icel. *li-m-r* 'limb'. Goth. *kus-tu-s* m. 'trial, proof', O.Icel.

kos-t-r (acc. pl. *kosto kostu*) m. 'condition', O.H.G. *kos-t* A.S. *cys-t*: Skr. *jutṣ-ṭp-a* etc. see above p. 325. Goth. *luf-tu-s* m. O.H.G. *luf-t* m. 'breeze, air'. O.H.G. *fur-t* m. 'ford' O.Icel. *fjör-ð-r* 'firth, gulf': Avest. *pešu-s* etc., see p. 325 above. O.H.G. *durs-t* A.S. *ðurs-t* (*ðyrs-t*) m. 'thirst', √ *ters-*. Goth. *vul-þu-s* m. 'glory'. Goth. *lus-tu-s* O.H.G. *lus-t* m. 'desire', for **ls-tu-s*, if it is connected with Skr. *la-las-a-s* (I § 299 p. 238, II § 100 p. 302). Goth. *þāh-tu-s* m. 'thought', from *þugkjan* 'to think'. O.Icel. *rētt-r* m. 'right': Lat. *rēc-tu-m* etc., see above p. 325. O.Icel. *hōtt-r* *hätt-r* m. 'way, sort, kind', beside *haga* 'to arrange'. Goth. *vahs-tu-s* O.Icel. *vaxt-r* m. 'growth'. Goth. *dáu-þu-s* O.H.G. *tō-d* m. 'death'. O.H.G. *blas-t* O.Icel. *blāst-r* *blast-r* n. 'blast'. Goth. *flō-du-s* O.H.G. *fluo-t* m. 'flood'. With the meaning changed to that of a *nomen agentis* we have e. g. Goth. *hlif-tu-s* 'thief', O.Icel. *vqrð-r* 'watchman'.

-s-tu- is rare (cp. *-s-ti-* § 100 p. 303 and *-s-tyo-* *-s-tro-* etc., see § 61 p. 117). Goth. *maih-s-tu-s* O.H.G. *mist* m. 'ordure', beside O.Icel. *mīga* 'mingere'. O.Icel. *lōst-r* m. 'mistake' for **lax-s-tu-*, beside O.H.G. *lastar* n. 'crime, vice' (suffix *-s-tro-*, § 62 p. 121), cp. O.H.G. *lahan* 'to blame'.

The termination *-ō-þu-* (also *-ō-ðu-* through the original variation of accent), which appears in derivatives of the weak verbs in *-ōn*, became an independent suffix (cp. Lat. *-atu-* p. 328). Goth. *gáunōþu-s* m. 'sorrow' from *gáunōn* 'to sorrow', *vratōdu-s* 'journey' from *vratōn* 'to travel'; O.H.G. *wegōd* m. 'help' from *wegōn* 'to help', *klagōd* m. 'lament' from *klagōn* 'to lament'; O.Icel. *laðað-r* m. 'invitation' from *laðu* 'to invite'. The following are examples of nouns beside which there is no corresponding verb in *-ōn*: Goth. *gabaúrjōþu-s* 'desire' *mannis-kōdu-s* 'humanity', O.H.G. *strūtōd* 'strife' *leichōd* 'hymenaeus, concubitus', O.Icel. *unad-r* 'delight'. In O.H.G. the formations in *-isōd* *inōd* *-ilōd* *-alōd* are especially common, as *rīchisōd* 'lordship' from *rīchisōn* 'to govern', *ellinōd* 'zeal, emulation' from *ellinōn* 'to be zealous', *swintilōd* 'giddiness' from *swintilōn* 'to become giddy', *hantalōd* 'laying on of hands' from *hantalōn* 'lay hands on, handle'. On the other hand in Anglo-Saxon and

Norse we find the termination *-nōþu-*, which came from verbs in *-nōn -nan* (e. g. A.S. *haftnōð* 'hold' beside *hæftnian*, O.Icel. *batnað-r* 'improvement' from *batna*); this became fertile and usurped the place of the older *-ōþu-*; e. g. A.S. *fuzelnoð* instead of, and parallel to, *fuzeloð* 'fowling', from *fuzelian*, O.Icel. *dugnað-r* 'strength, help', from *duga*.

The weak verbs in *-atjan* (Gr. *-αἵειν*) gave rise to the suffix *-assu-* (Gr. *ἀσσεύει-ς* from *ἀσπάζομαι*, p. 327), which was very fertile in all branches of Germanic except Norse, especially in the extended form resulting from its addition to *n*-stems, *-n-assu-* (Goth. *-in-assu-*). In West Germanic we have also *(-n)-iss(u)-* and *(-n)-uss(u)-*, whose *i* and *u* are variously explained (von Bahder, Verbalabstr. 119 ff.); and further various modifications of the final *-u-*, due to the analogy of feminine and neuter abstract substantives: fem. *(-n)-iss-ō-* *(-n)-uss-ō-*, *(-n)-iss-jō-* *(-n)-uss-jō-*, *(-n)-ass-ī-* *(-n)-iss-ī-* *(-n)-uss-ī-*, neut. *(-n)-ass-ja-* *(-n)-iss-ja-* *(-n)-uss-ja-*. Examples are Goth. *ibnassu-s* 'equality, fairness' (A.S. *emness*), beside A.S. *emnettian* 'adaequare' = Goth. **ibnatjan*; *ufarrassu-s* 'overflow, abundance' from *ufar*. These forms are especially frequent in connexion with verbs in *-inōn*; as *hōrin-assu-s* 'adultery' beside *hōrinōn*, which gave the type for words like *blōt-inassu-s* 'divine service' (from *blōtan*). O.H.G. *rāt-ussa* f. 'riddle' *offan-ussi* f. 'opening'; *ir-suochnissa* f. 'experimentum' *gi-miscnissē* f. 'mixture' *gi-hōrnissē* f. 'hearing'. *-nissa -nissē* had often the appearance of a denominative suffix, and hence it gave rise to a large number of formations like O.H.G. *got-nissa* f. 'godhead' *rein-nissa* f. 'purity' *churt-nassē* f. 'shortness'. In Upper Germany these suffixes were extended by *-īpo-* (§ 80 p. 240), hence *-nissida -nussida*, as in (O.H.G.) *fir-loranissida* 'loss'. *fūlnussida* 'idleness'.

Balto-Slavonic. Lith. *ly-tū-s* *lė-tu-s* m. 'rain' (supine *lų-tū* 'to rain' *lė-tū* 'to pour'): Lat. sup. *li-tu-m* *li-tū*, Goth. acc. sing. *lei-þu* O.H.G. *lī-d* m. n. 'fruit-wine'. Lith. *pė-tū-s* pl. 'midday meal, midday': Skr. *pi-tū-ṣ* etc., see p. 325 above. It is a moot point whether the adjectives in *-tū-s*, as *sta-tū-s* 'blunt, impolite', *drums-tū-s* 'dark, troubled' (of water), were

originally abstract substantives (p. 324), or whether they were modifications of old adjectives in *-ta-s* (see p. 317). O.C.Sl. *kra-tū* 'a time, occasion' (*dūva kraty* 'twice'): Skr. acc. pl. *kṛ-tv-as* 'so many times'; Lith. *kaṛta-s* may have also been originally a *u*-stem, from which we could then directly derive the form in *dū kartū* 'twice' *šesziš kartūs* 'six times' and the like.

The largest group of *tu*-stems are the infinitives (supines), which were formed at will from any verb. The Lithuanian supines in *-tu -tū* (the quantity differs in different dialects), which should properly be written *-tu* (their final nasal is still kept in the compound form of the optative, e. g. 1. pl. *sùktum-bime*), and the Slavonic forms in *-tū*, are acc. sing.; cp. Lat. *-tu-m*. Lith. *dū-tū* O.C.Sl. *da-tū* 'to give', *bū-tū bý-tū* 'to be', *ěstū* 'to devour' *jastū* 'to eat', *jěszkó-tū isku-tū* 'to seek', *sědē-tū sědē-tū* 'to sit', *ganý-tū goni-tū* 'to tend, pasture'; cp. also Pruss. *dā-tun dā-ton* 'to give' *maita-tun* 'to nourish' with other examples. In Old Church Slavonic there is a rare parallel form in *-tu*, (as *by-tu*), which may be regarded as gen. or loc., and Prussian has dative forms in *-twei*, as *dā-twei*.

IV. The Suffix *-ī-* (*-iē-*)¹.

§ 109. This suffix was used to form feminines in the proethnic and later periods. It served to differentiate the gender in the same way as *a* beside *o* (§ 59 ff.). In this function it was a secondary suffix, since these feminines were derived from the masculine and neuter stem. When a feminine of this kind was formed from *o*-stems, the stem-final *-o* was dropped in exactly the same way as before the suffix *-iō-*; e. g. Skr. *vṛk-ī* 'she-wolf' the feminine of *vṛka-s* 'wolf' (cp. § 63 p. 126, Rem. 3 p. 132). More rarely *-ī-* has the appearance of a primary suffix,

1) E. Sievers, Über die Feminina auf urgerm. *i*, Paul-Braune's Beitr. V 136 ff. O. A. Danielsson, Om die indoeuropeiska femininstammarne på *-i*, Upsala universitets årskrift 1881. W. Burda, Das slav. Suffix *ynja*, nom. sg. *yni*, Kuhn-Schleicher's Beitr. VI 194 ff.

as in Skr. *śām-i* 'work' Gr. *qu̓ça* 'flight' (for **qur̥-ia*); it cannot be shewn with certainty that such primary feminine forms existed in the protoethnic language.

It is difficult to determine what was the strong form of the suffix *-i-* in the Indo-Germanic paradigm. For though as a rule the classes of feminine nouns which contain the suffix are easily distinguished in the different languages, yet they show important differences in form which cannot have arisen simply and solely through the operation of phonetic laws. Indeed it is obvious that its declension has been influenced in very many ways by that of other stems. To me it seems most probable that *-iē-* (sometimes *-iġē-*) was the form of the strong-grade in Indo-Germanic. Cp. *-iē-* *-iġē-* : *-i-* in the optative, as in Lat. *s-iē-s* : *s-i-mus*, and the masculine suffix *-iē-* *-iō-*, *-iġē-* *-iġō-* : *-i-*, *-i-* (§ 63 p. 122 f.).

Remark 1. The following conclusions seem to me fairly probable. In protoethnic Indo-Germanic the nom. sing. ended in **-i*; Gr. *-ia* was formed on the analogy of *-iā*; Lat. *-iēs* Lith. *-(i)ġē* (beside *-i*) come from the extension of the form *-iē-* (*-iġē-*) to all the cases. The acc. sing. ended sometimes in **-i-m* (Skr. *-i-m*) sometimes in **-iġ-m* op. the opt. 3. pl. Lat. *s-i-ent* for **s-iġ-ēt*, I § 226 p. 193), from the latter we have Lat. *-iem* (*māter-iem*), Skr. *-iyam* (*str-iyam*), Gr. *-iay* (*πόρρ-ia*), the Skr. and the Gr. form having *-m* added on the analogy of the terminations *-i-m* *-ā-m* etc. Similarly the acc. pl. generally, perhaps always ended in **-iġ-ys* Skr. *-iyas* (*str-iyas*), Lat. *-iēs* (*māter-iēs*): in Gr. *-iġ-ys* is perhaps represented by *-iā*, the by-form of *-iay*; *-ia* before consonants. The so-called Weak Cases with a case-suffix beginning in a consonant had *-i-*, as loc. pl. **-i-en* (Skr. *-i-ñ*). Elsewhere the form was *-iē-* or *-iġē-*, e. g. gen. sing. **-(i)ġēs*. This form of the suffix is regularly represented in Latin, Balto-Slavonic, and Aryan, Lat. *māter-iē-*, Lith. *žem-ė* for **žem-iġē-* (I § 147 p. 121), O.C.Sl. *zem(i)-ja-* (cp. *stojati* for **stojēti*, I § 76 p. 66), Skr. *viduṣ-yā-*. The Ablaut is thus precisely parallel to that of the optative suffix *-iē-*, e. g. Lat. *rob-iē-s* (gen. sing.): *rob-i-em* : *datr-i-x* = *s-iē-s* : *s-i-ent* : *s-i-mus*. In several languages confusion with the *iā* stems led to the substitution of *-(i)ġā-* for *-(i)ġē-*: e. g. gen. sing. Gr. *πορρ-ia*; *iđvā*; (this change was probably due in part to the influence of the heavier form of the acc., sing. and pl. *-iay*; *-iay*.) O.Ir. *Briŋte* (cp. Skr. *bṛhatyā*), Goth. *māujōs* beside nom. sing. *nōrvia iđvin*, *Brigil* (Skr. *bṛhatī*), *mavi*; so also Lith. *marcziūs* beside *marči*. Different views as to the form of the strong grade in this suffix have been maintained by Kluge, Paul-Braune's Beitr. VI 391 f., and by Osthoff, Zur Gesch. d. Pers. 338 f.

-i- was the regular form of the suffix when other suffixes were

added to it: e. g. Skr. *pātni-vant-* 'accompanied by one's wife', Gr. *παῖ-
-τη-* beside Dor. *πολιτ-τα-* Ion. *πολιτ-τη-* 'citizen', Lat. *victrī-x*.

There was a confusion with the *i*-stems (§ 92 ff.) as well as with the *iā*-stems. Compare e. g. Skr. *nār-i-* and *nār-i-* 'woman' (see Benfey, Nachr. von der göttl. Ges. d. Wiss. 1876 p. 644 ff., Lanman, Noun-Inflection p. 370), Gr. *λῃστῆ-ι-* (gen. *λῃστῆιδος*) 'female robber' beside *παῖτῆ-ω* 'girl who plays the guitar', Lat. *nept-i-s* beside O.H.G. *nīf* (= Goth. **nīf-i*) Skr. *napt-i-*, *sudci-s* for **sudd-u-i-s* beside Skr. *svādv-i-*, Skr. *āti-ṣ* Lith. *ānti-s* beside Gr. *νῆσσα* 'duck' for **vār-ia*. In these cases the *i*-declension was the older, but the converse change occurs in Sanskrit, stems in *-i* being inflected in the same way as those in *-ī* in order to mark their feminine gender, e. g. gen. sing. *gātṛyās* beside *gātṛṣ* from nom. *gātī-ṣ*, nom. sing. *bhūmī* gen. sing. *bhūmyās* beside nom. *bhūmī-ṣ* (§ 97 p. 289), *yuvati* beside *yuvati-ṣ* (§ 101 p. 307).

Finally these stems were confused with the inflexion of monosyllabic stems, such as Skr. *bhi-* Gr. *χι-*, in which *-i-* and *-iē-* alternated (nom. *bhī-ṣ* gen. *bhiy-ās*, Gr. *χι-ς* *χι-ός*). Hence e. g. Skr. nom. *napt-i-ṣ* gen. *napt-iy-ās*, Gr. *πολιτ-ς* *πολι-ός*.

Remark 2. To this last remark I must add a corollary, lest it should be taken to imply the existence of a third *i*-suffix, *-i-* *-iē-*, in Indo-Germanic (*-i-* in all cases whose case-suffix began with a consonant, *-iē-* where it began with a sonant) in addition to *-i-* (*ei-*) and *-i-* (*iē-*). There would be just as much and just as little reason for supposing a parallel suffix *-ū-* *-uē-* on the strength of such forms as Skr. *śvaśrū-ṣ* *śvaśrūc-am* O.C.Sl. *svěkrj svěkrūc* Gr. *νῆκυ-ς* *νῆκυ-ός*. As a matter of fact it seems to me very probable that all these polysyllabic *-i-* *-iē-*-stems and *-ū-* *-uē-*-stems have simply abandoned their original inflexion in order to conform to the type of such monosyllabic stems as Skr. *bhi-* Gr. *χι-*, Skr. *bhrū-* Gr. *δῆρū-*, in which *-i-* and *-ū-* are part of the 'root' (cp. § 8 Rem. 1 and 2 p. 20 f.). This change of inflexion will call for further notice when we come to the formation of the cases.

§ 110. Differentiation (Motion or Feminine-formation) of *u*-stems (§ 103 ff.). Originally the no doubt nom. sing. was *-ey-i* gen. sing. *-u-iēs* (yet notice also Avest. *varəhu-yā*), loc. pl. *-u-i-su*. Skr. *svādv-i* Gr. *ῥδῆῖα* for **afādēF-ia* Lat. *sudv-i-s*, beside masc. Skr. *svādū-ṣ* Gr. *ῥδύ-ς* 'sweet'. Skr. *gurv-i* Gr. *βαρεῖα* 'gravis'. Skr. *pr̥thv-i* Avest. *per'pūc-i* Gr. *πλατεῖα* 'broad, wide'. Skr. *tanv-i* Lat. *tenu-i-s*. In Germanic and Baltic post-consonantal *u* was dropped before *-iē-* (*-iā-*): Goth. *kaūr-jō-* 'gravis' (acc. sing. *kaūrja* nom. pl. *kaūrjōs*) for **kurū-jō-* (cp. O.Icel. *ylg-r* I § 444 p. 329); Lith. *saldžiō-* (gen. sing. *saldžiōs*) for **saldū-jō-*, on the analogy of which was formed the nom. *saldī* instead of **saldū-i*; Goth. *hard-jō-* 'hard' Lith. *karcziō-*

'bitter' (nom. *kartī*) from masc. *hard-u-s kart-ū-s*. In this class of adjectives, the unextended form, without *-ī*, could also be used for the feminine; e. g. Skr. *tanū-ś*, Gr. ἡδύς θῆλυς (in Homer and elsewhere), Goth. *kaúru-s* (only *-u-s* is ever found in the nom. sing.). The nom. in *-ī* is found in Gothic in the subst. *mavi* 'girl' for **mazu-ī*, beside the masc. *magu-s*; the analogy of the cases with this form of the stem, **ma(3)u-ī* gave rise to the gen. *máujōs* instead of **magjōs*.

Differentiation of *n*-stems (§ 112 ff.). Skr. *tak-ṣṇ-ī* Gr. τέκταινα (for **τεκταρ-ι(a)*): Skr. *tákṣan-* Gr. τέκτων 'worker in wood, carpenter'. Skr. *rājñ-ī* from *rājan-* 'king' O.Ir. *rīgain* 'queen', whose ground-form was **rēgñn-ī*. Skr. *yūn-ī* from *yúvan-* 'young, young man' Lat. *jūn-i-x*. We may probably infer from Skr. *pātnī* Gr. πόρνα 'lady' and Gr. δέσπονα 'mistress' for **πορνια* (I § 488 p. 360), as compared with the masc. Skr. *pāti-ś* Gr. πόσις, that *-n-ī* could be used as an independent suffix even in the protoethnic period.

Skr. *śun-ī* from *śván-* *śún-* 'dog'. *pañca-dāmn-ī* from *pañca-dāman-*. *maghñ-ī* from *maghāvan-* *maghñ-* 'giving bountifully, dispenser'. Avest. *ašaon-ī* from *ašavan-* *ašaon-* 'pure' (Skr. *ṛtāvan-* 'holy, pious'). With Skr. *pāt-nī* we should no doubt compare Skr. *pālik-nī hārik-nī*, beside *palitā-* 'gray, hoary' *hārita-* 'tawny' (as to *k* for *t*, see the Author, Morph. Unt. II 198), *pāruṣ-nī* beside *paruṣ-ā-* 'knotty'.

Gr. γείταρα from γείτων 'neighbour'. θεράπεινα, beside θεράπ-ν-η, both from θεράπων 'servant', λέαινα from λέων 'lion' (these masculines were originally *n*-stems; see § 114, under Greek). *-aina* was taken into general use as an independent suffix, denoting female creatures: λύκαινα, κάπρινα, ἡμι-θείαινα, etc. Notice further φάγαινα 'voracity, ravenousness' beside φαγών 'devourer'. ἄγκωνα (Att.) beside ἀγκών 'bend of the arm'; we should no doubt compare Hom. ἐπ-ηγκεν-ίδ-ες 'side-planks of a ship'.

Lat. *jūn-i-x*, see above. *corn-ī-x* beside Gr. χορών-η 'crow', cp. also Umbr. *curn-ac-o* 'cornicem'.

O.Ir. *rīgain* 'queen': see above.

In Germanic we have *-un-ī-* *-in-ī-* (Idg. *-yn-ī-* *-en-ī-*) and *-n-ī-*. *-un-ī-* is contained in Goth. *lauh-mun-ī* 'flash', O.H.G. *wirtun* (beside *wirtin*) 'hostess', O.Icel. *apynja* from *ape* O.H.G. *affo* 'ape', and, without any masc. *n*-stem, *as-ynja* 'goddess' (masc. *as-s*) and other forms. *-in-ī-* appears in Goth. *Saur-imi* 'Syrian woman' (m. *Saur*); it is frequent in West-Germanic, as O.H.G. *herzohin* from *herizogo* 'duke'; hence came new formations like *chuning-in* from *chuning* 'king', *esil-in* from *esil* 'ass'. *-n-ī-* in O.H.G. *birn* (*Hrod-birn* etc.) from masc. *bero* 'bear', Mod.H.G. *ricke* 'roe' (female) for **rik-nī* (I § 214 p. 181, § 530 p. 388) beside O.H.G. *rēh* n. 'roe' (male and female) pr. Germ. **raix-a-*.

The Slavonic feminines in *-ynji* no doubt belong originally to this class (*j* has come in from the other cases, as acc. *-ynja*): *bogynji* 'goddess' *blagynji* 'kindness'. They appear to have arisen through an analogical extension of the use of *-n-ī-* (cp. the Author, *Morph. Unt.* II 200).

The original inflexion of these feminines was perhaps nom. sing. *-en-ī*, gen. sing. *-n-iēs* and *-yn-iēs* loc. pl. *-n-i-su*.

Differentiation of *r*-stems (§ 119 ff.). The original endings were doubtless nom. sing. *-er-ī*, gen. sing. *-r-iēs*, loc. pl. *-r-i-su*. Skr. *dā-tr-ī* Gr. *δό-τειρα* for **δο-τερο-ια* Lat. *dā-tr-ī-x*, beside Skr. *dā-tār-* Gr. *δο-τήρ* *δω-τωρ* Lat. *dā-tor* 'giver'. Skr. *jāni-tr-ī* Gr. *γενέ-τειρα* Lat. *gene-tr-ī-x* 'mother'. Skr. *bhar-tr-ī* Avest. *bar*pr-ī* *ber*pr-ī* 'supporter, mother'. Skr. *s-tr-ī* Avest. *s-tr-ī* 'wife, woman'. Skr. *nē-tr-ī* 'she who guides', *dēṣ-ṭr-ī* 'she who shows', *cōdayi-tr-ī* 'she who drives on'; *dhō-tār-ī* f. 'shaking'. Gr. *ἐνν-ειρα* and *ἐνν-ειρο-ια* 'wife', *σω-ειρα* 'saviour lady', *ψαλ-τρο-ια* 'guitar girl'; we also have *-īs -id-os*, as *ληστορ-īs* 'female robber', *ἀλε-τρο-īs* 'female miller', *αὐλ-η-τρο-īs* (beside *αὐλ-η-τρο-ια*) 'flute-girl'. Lat. *obstē-tr-ī-x*, *mere-tr-ī-x*, *imperā-tr-ī-x*, cp. also the Osc. *Fuu-tr-eī* 'Creatrici, Genetrici'. It is still doubtful whether this Indo-Germanic formation in *-tr-ī-* can be directly connected with the West-Germanic feminines like A.S. *baecestre* 'baker-woman', O.Sax. *agastria* 'magpie' O.H.G. *wa gastria* 'lance', Goth. *hvilf-tri* f. 'coffin' and Lithuanian feminines like *áuklė* 'children's attendant' (i. e. **áuk-klė*, from *áugu* 'I grow up')

perē-klē 'brood-hen' (see Kluge, *Nom. Stamm.* p. 24 and J. Schmidt, Kuhn's *Ztschr.* XXV 29). They can also be explained as extensions of stems with the suffix *-tro- -tlo-* (§ 62 p. 118 ff.).

Differentiation of *nt*-stems (§ 125 ff.). It is certain that the feminine participles of non-thematic tenses which end in a consonant had *-nt-* in all their cases, e. g. **s-nt-i* f. 'being'; similarly the feminines of *-uent*-stems had *-u-nt-i*. On the other hand, we find *-nt-* throughout the paradigm in forms like Gr. *ἀῖσα γυνῶσα* (from *ἄημι* 'I blow' *ἐγνων* 'I perceived') ground-forms **yē-nt-i* **ǵnō-nt-i* (for Skr. *vāti*, which seems to contradict this, see below). It is not clear how far there was any variation of ablaut in the elements immediately preceding the *-i*-suffix in the *-o-nt-* participles; but it is certain that *-nt-* sometimes appeared even here.

Skr. *sat-i* Avest. *hait-i* Gr. Dor. *ἄσσα* Att. *οῦσα* O.C.Sl. *sašti*, beside masc. Skr. *s-ant-* etc. 'being', indic. 3. sing. Skr. *ās-ti* 'is'. Skr. *byhat-i* Avest. *ber'zaiti-*, O.Ir. *Brigit* (O.Celt. *Brigantiae* dat. sing. with Latinised ending), from masc. Skr. *byh-ant-* 'being great, exalted'. Skr. *vānt-i* (*vāt-i* Avest. *vāiti-* is no doubt a re-formation following the analogy of *sat-i*: *sant-am*; see V. Henry, *Revue Crit.*, 1887, p. 100), Gr. *ἄσσα*, beside masc. Skr. *vā-nt-* Gr. *ἄε*, *ἄετ-* 'blowing'. Skr. *tu-dā-nt-i* and *tudat-i* beside *tudā-nt-* 'tundens', Gr. *ἰδοῖσα* beside *ἰδοῖν* *ἰδοῖ-ντ-* 'beholding'. Skr. *bhāra-nt-i* Avest. *bare-nt-i* Gr. *φέρουσα* O.C.Sl. *berašti*, beside *bhāra-nt-* Gr. *φέρων* *φέρο-ντ-* O.C.Sl. *bery* 'ferens'. Goth. *hulund-i* 'cave' ('covering, hiding'), *frijōnd-i* 'female friend'; the participles which were in actual use as such had passed over to the *in*-declension, as *batrandei* gen. *batrandeins*. Lith. *sukant-i* gen. *sukanciōs* from masc. *sukās* 'turning'. O.C.Sl. *berašti*, instead of **berati*, where *š* has forced its way in from the other cases, as gen. *berašte*; in these *-št-* came regularly from *-ti-* (I § 147 p. 132 f.).

-u-nt-i. Skr. *āpa-vatī* from *āpa-vant-* 'rich in water', Gr. *ὀπός-σσα* from *ὀπός-εις* *ὀπός-ντ-* 'rich in sap'; in Greek *-φει-* appears

for *far-*, see § 127. Skr. *sáras-vat-i* 'rich in water' f. Avest. *haraxvaiti-* O. Pers. *harauvati-*.

Differentiation of *s*-stems (§ 131 ff.).

-es-i. Skr. *ródas-i* from *ródas-* 'world', *śavas-i* f. 'the strong one' from *śávas-* 'strength'. Gr. Att. *áraiðna* 'shamelessness' *álhþna* 'truth' from *áv-αιδής* *άληθής*. Lat. *temper-iē-s* from *tempus*.

The original forms of the part. perf. act. were doubtless nom. sing. -*ues-i* gen. sing. -*us-iēs* loc. pl. -*us-i-su*. Skr. *vid-ús-i* Avest. *vid-uš-i-* Gr. *id-vīa*, beside masc. Skr. *vid-vān* Avest. *vid-vā* Gr. *id-ός* 'knowing'. Similarly Lith. *vil̃k-us-i* O.C.Sl. *vl̃k-ŭsi* 'having drawn'. A feminine of this kind is implied in Goth. *bēr-us-jōs* 'parents' (those who have borne): on the model of the feminine (*-*usi* -*usjōs*) was formed a masculine with -*ja-*. It is natural to infer a nom. sing. -*ues-i* from the Gr. (Dor. Att.) by-forms in -(f)*eia*, as *γεγον-εῖα*, *ἐρορη-εῖα*: *γεγονεῖα* **γεγονυῖα* was levelled on the hand to *γεγονεῖα* -*εῖας*, on the other to *γεγονυῖα* *γεγονυῖας* (cp. § 136 Rem. 2).

Similarly in primary comparative forms: -*ies-i* -*is-iēs* -*is-i-su*. Skr. *jyā-gas-i* from *jyā-yān* 'mightier'. Avest. *frā-yah-i-* from *frā-yā* 'more'; an isolated -*išt* is perhaps contained in Skr. *māhiṣi māhiṣi* beside *māh-īyas-i*; see J. Schmidt, Kuhn's Ztschr. XXVI 386. Goth. *jūh-iz-ei* 'younger' (cp. *bairandei* p. 337). O.C.Sl. *boljiši* beside neut. *bolje* 'greater': nom. *boljiši* gen. *boljiše* instead of **bolješi* **boljše* (cp. § 135 Rem. 1).

Differentiation of *o*-stems (§ 59 ff.). -*i-* was in use as well as -*ā-* in proethnic Indo-Germanic. Skr. *vr̥k-i* O.Icel. *ylg-r* O.H.G. *wulpa* 'she-wolf' (pr. Germ. **wul-b-i* **wulz(u)jōs*, I § 444 p. 329), beside Skr. *vr̥ka-s* Goth. *vulf-s* 'wolf'; cp. also A.S. *wylf* f. beside *wulf*. Skr. *dēv-i* 'goddess' Avest. *daçv-i-* 'witch' Gr. *ð̥a* 'divine lady' for **ð̥f-ia* Lith. *deiv-ė* 'ghost' *dēv-ė* 'goddess', beside Skr. *dēv-ā-s* Lith. *dēv-a-s* 'god'. Skr. *pīvar-i* Gr. *πίσαρα*, beside *pī-varā-s* (Gr. *πίσος* 'fat' (cp. § 74 p. 182, § 76 Rem. 1 p. 201). Skr. *dūt-i* 'female messenger' from *dūtā-s* 'messenger', *yam-i* from *yamā-s* 'akin'. Gr. *ἑταίρα* 'female companion' instead of **ἑταρα*, beside *ἑταρος* 'companion' (Wheeler,

Nominal acc. 59). Goth. *þiv-i*, gen. *þiu-jōs*, 'female servant', beside *þiu-s*, gen. *þivis*, 'servant', O.Icel. *mer-r* 'mare' beside *mar-r* 'horse'.

Sporadic examples. Sanskrit. *nap-tī* 'female descendant' O.H.G. *nift* (Goth. **nift-i*) 'neptis, privigna', beside Skr. *nāpāt-* 'offspring'. Skr. *-ghn-i* beside *-han-* 'killing'. Greek. *μῦα* for **μῡα-ια* Lith. *mus-ė* 'fly', beside Lat. *mus-ca*. *θησα* 'female labourer' for **θητ-ια*, beside masc. *θης*, gen. *θητ-ός*. *πέζα* (for **πεδ-ια*) 'foot, lowest part', beside *ποῦς* 'foot' (cp. § 160, 1). *πίσσα* Att. *πίττα* 'pitch' (for **πιχ-ια*), beside Lat. *pix*. *κίσσα* Att. *κίττα* 'jay' (for **κιχ-ια*), beside Skr. *kiki-ś* 'jay'. *φάσσα* (for **φαχ-ια*), 'wild pigeon', beside *φάψ* (gen. *φάβ-ός*) the same, cp. I § 486 Rem. p. 359, § 495 Rem. 364. *μία*, gen. *μιῦς*, 'una' for **αμ-ι-*, beside *έν-* (nom. *έξς* *είς*) 'unus' for **sem-* (I § 204 p. 172, II § 160, 1). Latin. *pauper-iē-s* beside *pauper*, like *barbar-iē-s* beside *barbaru-s*. O.Ir. *s-i* 'ea' Goth. *s-i* 'ea': cp. Skr. *s-yā*. *sētig* 'female companion, wife' for **sentic-i*. Gothic. *vas-t-i* 'garment', *hvōf-t-uli* 'fame'; A.S. *hunticze* 'huntress' beside *hunta* 'hunter' and the like, see Kluge, Nom. Stamm. p. 22. Lithuanian. *žēm-ė* O.C.Sl. *zem(l)-ja* 'earth', beside Skr. *kṣām-jm-* Av. *z'm-* Gr. *χθών* (I § 204 p. 172, II § 160, 2). Lith. *szl* O.C.Sl. *si* 'haec' beside *szl-s* *szl* 'hic' (gen. *szlō*, *sego* instead of **sego*). Lith. *patī*, gen. *pacziōs*, 'lady, ipsa', beside masc. *patī-s* (*pāts*) gen. *patīs*. Lith. *marī*, gen. *marcziōs* 'bride'. O.C.Sl. *ladiji* (*aldiji*) 'ship', and with masculine gender (which is not original) *baliji* 'physician' *sadiji* 'judge' (cp. the Slavonic masculines in *-a*, § 59 p. 109); *-iī-* like *-ii-* (Lith. *mō-jī-s*) p. 122 footnote 2 and *-iin-* § 115 (under Aryan).

§ 111. Of the words in which *-ī-* appears to be a primary suffix, none show it in more than one language simultaneously. Examples are: Skr. *śām-i* 'work'. *śāc-i* 'strength'.

Gr. *φύζα* 'flight' for **φυγ-ια*. *οξύζα* 'wood split small, billet' for **οχυθ-ια*.

Lat. *ac-iēs*. *scab-iēs*. *spec-iēs*. *prō-geniēs*. *dī-luviēs*.

Lith. *žinė* 'knowledge'. *srov-ė* 'stream'. *rėk-ė* 'slice of bread'. *dūb-ė* 'hollow, pit'.

Many examples are doubtful, as Gr. *ῥόσα* 'rumour, prophecy'

(beside *οὔρ* 'voice, speech'), *μοῖρα* 'appropriate share, fate' (beside *μῶρο-ς* 'lot, fate'), Goth. *bandi* 'bond, chain' (beside O.H.G. O.Sax. *band* n. 'bond').

V. Suffixes in *-n*¹).

§ 112. The parent language had four suffixes ending in a nasal: *-en-*, *-ien-*, *-uen-*, *-men-*²). They have a good deal in common with *-o-*, *-io-* *-i-* *-ē-*, *-uo-* *-u-*, *-mo-*, and it is not improbable that the forms *-ien-*, *-uen-* and *-men-* were formed in the proethnic period merely by the addition of *-(e)n-* to such older suffixes.

This process of extension can be seen at work in the separate languages as well; and we must there regard it as a continuation, or renewal, of a tendency which first appeared in proethnic times. Compare, for instance, the development of the *n*-declension in Germanic.

The oldest point of contact between the four *n*-suffixes and the corresponding *o*-suffixes is found in the representation of *n*-stems by *o*-stems in compound words, which began in the proethnic period; e. g. Gr. *αἶμα-βατής* and *ἄν-αιμο-ς* beside *αἷ-μα* (*ἄν-αἷμον*); further examples are given in § 12 p. 26 f. This shews that there were even then many parallel stems in *-n*- and *-o*- with no difference of meaning; for some reason or other the *o*-form of these words was preferred in composition, and by degrees this established a general rule for compounds

1) H. Ebel, Suffix *-ion* and *-tion* [in Old Italic]. Kuhn's Ztschr. V p. 420 f. R. Fisch, Substantiva personalia auf *ō*, *ōnis* [in Latin], Archiv für lat. Lexikogr. und Gramm. V 56 ff. W. Meyer, Das lat. Suffix *ō*, *onis*, ibid. 223 ff. H. Osthoff, Zur Geschichte des schwachen deutschen Adjectivums (Forschungen im Gebiete der idg. nominalen Stammbildung II) 1876. Idem, Zur Frage des Ursprungs der german. *n*-Declination, Paul-Braune's Beitr. III 1 ff. The Author, Die schwache Form der Nominalstämme auf *-n* in suffixalen Weiterbildungen und Zusammensetzungen, Morph. Unt. II 148 ff.

2) One form with *n* is quite unique; **ghnem-* **ghnem-* (Avest. *zyē* Lat. *hiem-s*), which, having due regard to Skr. *hēman* Gr. *χει-μα*, we ought apparently to divide **ghn-em-* **ghn-em-*. I have attempted to explain this rare word in § 160, 2.

of *-n*-stems. Another principle of formation, exemplified in most of the languages in forms like Skr. *aśm-īya-s* beside *ás-man-*, Gr. *χει-ιή* beside *χει-μα χει-μῶν*, seems to have arisen in the proethnic period. Further in almost all the languages, in some of them very frequently, we find parallel forms in *-n*- and *-o*-each of which is completely declined, some of them indeed having a slight difference of meaning (to this point we shall return later on); e. g. Skr. *vák-van-* and *vák-va-* 'turning, rolling' (intr.), *dhár-man-* and *dhár-ma-* 'law, ordinance', Gr. *στιάβ-ων* 'squinter' and *στιάβ-ός* 'squinting', *οὐραν-ίων* 'heavenly being' and *οὐράν-ιος* 'heavenly', *ἐθελή-μων* and *ἐθελή-μός* 'willing', Lat. *in-cub-ō* and *in-cub-u-s*, *lan-iō* and *lan-iu-s*, *alluvi-ō* and *alluv-iu-m*, Goth. *sa ráuda* 'the red one' and *ráup-s* 'red', *in-gard-ja* 'member of a household' and *in-gard-ja-* 'in a house' (adj.), O.Fris. *ēth-ma* beside O.S. *āthom* 'breath', O.C.Sl. *ra-mę* beside *ra-mo* 'shoulder'. And it often happens that the two forms do not appear in the same branches of the Indo-Germanic family; e. g. Goth. *ga-juk-a* 'companion' beside Lat. *con-jug-u-s*, Skr. *dy-un-* 'life, time of life' Gr. *αἰ-(f)ών* 'space of time, eternity' and Lat. *ae-vo-m*, Gr. *πυθ-μήν* 'ground, earth' and O.H.G. *bodam* 'ground'.

In Aryan, single cases of the *-o*- *-ā*- *-i*- *-u*- *-ī*- and *-r*-stems were transferred into the inflexion of the *n*-declension; e. g. Skr. nom. acc. neut. *yugāni* (from sing. *yugā-m* 'yoke', on the analogy of *nāmān-i*), gen. pl. Skr. *dēvānam* Avest. *daēvanam* (Skr. *dēvā-s* 'god'). See J. Hanusz, Über das allmähliche Umsichgreifen der *n*-Declination im Altindischen (Sitzungsberichte der Wiener Akad. d. Wiss. CX.), 1885. Similarly in West Germanic we have O.H.G. gen. pl. *gebōno* (from nom. sing. *gebu* f. 'gift').

The words formed with these suffixes are generally masculine or neuter, as Skr. *tákṣ-an-* m. 'carpenter' *yak-ān-* n. 'liver'.

A large group of feminines appears in Italic, Celtic, and Germanic consisting of abstract substantives formed with *-ien-* (*-iōn-*); as Lat. *cap-iō* *men-tiō*, O.Ir. *er-mitiu* 'honour', Goth. *ga-run-jō* 'flood of water' *ra-hjō* 'ratio'. It may be assumed that these *n*-stems, which represent a comparatively modern stratum of

formation, owe their feminine gender to their character of abstract nouns. And all the other feminine *n*-stems which appear in Germanic, are as such undoubtedly modern; they are due to a connexion which grew up between the Indo-Germanic suffixes *-ōn- -iōn- -īn-* and the Germanic feminine forms in *-ō- -iō-* (= Idg. *-ā- -iā-*) and *-ī-*, through the analogy of the relation between Germ. *-un- -ian-* on the one hand and Germ. *-a-* on the other. In many words, where the languages vary between masculine and feminine, the masculine is clearly the older; this is true of Skr. *st-mán-* 'boundary' (cp. § 117), Gr. *κίον* 'pillar', Lat. *margō*. In Skr. *yōṣan-* f. 'virgin' (beside *yōṣa yōṣanā*) the gender was determined by the sex. In Skr. *vṛṣanā tvācam* acc. 'streaming, raining cloud', Gr. *ἀρηγὼν θεῖα* 'adiutrix dea' *τρήρων πέλεια* 'timid dove', as in the case of Skr. *tanú-ṣ* Gr. *ἡδύ-ς*, we see the masculine form used unaltered in connexion with feminine words (§ 110 p. 335). And in other examples there are similar reasons for regarding the feminine gender as a modern development so that we may fairly assume that nouns formed with *n*-suffixes were originally only masculine and neuter. For the feminine there was the special form with *-ī-*, as Skr. *takṣ-n-ī* Gr. *τέκτ-αινα*, § 110 p. 335.

§ 113. From the earliest times the *n*-suffixes show a very complex variation of Ablaut. What are called the strong cases had *-en- -on- -ēn- -ōn-*, *-ien- -ion- -iēn- -iōn-* (*-iien- -iion-* etc.) and so forth; the weak cases *-n- -y- -in- (-īn-) -iy- (-iīy-), -un- (-ūn-) -uy- (-uūy-), -mn- -my-*.

In the weak cases, the form of the suffix ending in a consonant preceded the case-endings beginning with a sonant, e. g. Skr. gen. sing. *tákṣ-n-as* 'of the carpenter' *ná-mn-as* 'of the name'; and conversely the form ending in a sonant preceded the case-endings beginning with a consonant, e. g. loc. pl. *táks-a-su ná-ma-su* (*-a- -ma-* for *-y- -my-*). (Originally also the weak form of the suffix was regular in all extensions of the stem, e. g. *takṣ-n-ī* fem. of *tákṣan-* (§ 110 p. 335), *yuva-śá-s* 'youthful' from *yúv-an-* 'young' (§ 83 p. 251), *śrō-ma-ta-m* 'hearing' beside Avest. *srao-man-* 'hearing' (§ 82 p. 249). This deserves especial

notice, because in several languages the weak forms of the suffix were banished from the actual declension by levelling and other kinds of re-formation, so that it is only in derivatives that we have any evidence to shew that such forms ever existed in the paradigm. Thus we have e. g. Gr. *γειρ-ν-ιά* 'neighbourhood' beside *γειρ-ων -ον-ος*, *πῑ-(f)αινω* 'I make fat' for **-uṇ-iō-* beside *πῑ-(f)ων -(f)ον-ος*, *ποι-μν-η ποι-μν-ω-ν* 'herd' *ποι-μαίνομαι* 'I pasture' beside *ποι-μν-ν -μν-ος*, Lat. *jū-n-ī-x* beside *juv-en-* (*juv-en-is juv-en-um* etc.), *colu-mn-a* beside *colu-men -min-is*, O.H.G. *-birn* 'she-bear' beside *ber-o -in* 'bear', *hliu-mun-t* 'call' beside Goth. *hliu-ma -min-s* 'hearing', Lith. *ėl-n-i-s* 'stag, elk' beside O.C.Sl. *jelen-* (gen. sing. *jelen-e*) 'stag'.

It is more difficult to determine how the strong forms of the suffix were originally distributed. The following points may be regarded as certain.

1. The nom. sing. masc. (fem.) ended sometimes in *-ō(n)*, and sometimes in *-ē(n)*, cp. Armen. *šun* Gr. *ξύ-ων πῑ-(f)ων ἄξ-ων*, Lat. *ed-ō men-tiō ter-mō* O.Ir. *cū er-mi-tiu brithē-m* Gall. *casa-mo*, O.H.G. *egg-o skī-mo*, Lith. *szū* for **szūā ak-mū* O.C.Sl. *ka-my* and Gr. *αῖχ-ήν ποι-μν-ν*, Lat. *li-en*, O.Icel. *ox-e ux-e* (Skr. *ukṣ-ā*) *skī-me*.

2. The nom. acc. neut. had *-ō(n)* and *-ē(n)* beside *-ṇ -ṇ̄*, cp. Goth. *vat-ō na-mō hairt-ōn-a*, Lith. *vand-ū* (originally neut.) and O.C.Sl. *i-me* (cp. Avest. *nā-man* Skr. *nā-mān-i*).

3. A certain number of masculine stems had in the acc. sing. and nom. du. pl. *-en-*, cp. Gr. *αῖχ-έρ-α ποι-μν-α*, Lith. *pē-men-ī* O.C.Sl. *ka-men-ī* (compare the exceptional forms *ukṣ-āṇ-am arya-mān-am* in Sanskrit).

4. There were locatives singular in *-en -en-i*, cp. Gr. *αῖχ-έρ-ι αῖ-(f)έρν ποι-μν-ι δό-μν*, Goth. *aihs-in* (cp. Skr. *ukṣ-āṇ-i nā-man-i*).

Further the following assumptions seem to me probable.

1. A certain proportion of the masculine stems had *-on-* in acc. sing. and nom. du. pl., cp. Gr. *τέκτ-ον-α πῑ-(f)ον-α ἄξ-ων-α*, Gall. *Ling-ōn-es* (nom. pl.), Goth. *ah-an ah-man*, Skr. *tákṣ-āṇ-am áś-mān-am*. The variation between *e* and *o* in these

cases, like that between *ē* and *ō* in the nom. sing., depended upon the different position of the accent in the word; we have e. g. nom. pl. *-én-es* and *-on-es* like nom. sing. *-ĕ(n)* and *-ō(n)*. cp. Gr. *q̄p-ír-ēs q̄p-ír* as contrasted with *ā-q̄p-or-ēs ā-q̄p-or*. Cp. I § 311 p. 248 f.

2. The loc. sing. always ended in *-en* or *-en-i*, even where the strong cases had *-on-*. Notice especially the Goth. loc. *ah-in ah-min* contrasted with acc. *ah-an ah-man*, as Skr. *rājān-i: rāj-ān-am*. Compare also (Gr. *ai(f)ér ai(f)ón*).

In certain instances, the *ō* (and *ō?*), which appear in the European languages in other cases than the nom. sing. masc. and the nom. acc. sing. and pl. neut., had perhaps encroached upon the province of the other forms of ablaut before the end of the proethnic period (should we regard this as a dialectic variation in the parent language?); cp. e. g. acc. sing. Gr. *οὐραν-ίον-α*, Lat. *libell-iōn-em rat-iōn-em*, Goth. *ga-run-jōn ra-þjōn*, O.C.Sl. nom. pl. *graždan-e* for **gord-iān-e(s)*. Yet this form of the stem cannot have spread through the whole case-system, as we see from such forms as Umbr. abl. *tribris-in-e* na-tin-e, O.Ir. dat. *er-mit-in*.

We should compare with this the ablaut of the *-er-* and *-ter-* stems, which is on the whole parallel; see § 120.

Remark. For different views as to the strong forms see Collitz, Bezenberger's Beitr. X 1 ff., and the authorities there cited. It is perhaps not superfluous to insist here that even if Collitz should be right in supposing the existence of Indo-Germanic locatives in *-on(-i)* (cp. Gr. *ἄζονι*), this would not be an argument against the hypothesis that in open syllables Idg. *o* became *ā* in Aryan. For the *n*-stems had originally locatives without *i*, and e. g. Skr. loc. *kar-man* can be derived as regularly from original **-mon* as from original **-men*.

§ 114. The Suffix *-en-*. This was used from the earliest period to form primary *nomina agentis*, as Skr. *tākṣ-an-* Gr. *τέκτων* 'carpenter, worker in wood, architect'. The root-syllable is usually in the weak grade, but the accent varies between the suffix and the root; cp. Skr. *ukṣ-ān-* beside *vyṣ-an-*, Gr. *-φρ-ήν* (*πολύ-φρην*) gen. *ἀφ-ρ-ός* and *γαγ-ώρ* 'jawbone' beside *ἄρσ-ην* and *σφαγ-ών*, Germ. **tuz-én-* beside **tūχ-en-* (O.H.G.

heri-zogo and *heri-zoho*), **rub-én-* (O.Icel. *eid-rofe*) beside **ris-en-* (O.H.G. *betti-riso*). Cp. Kauffmann, Paul-Braune's Beitr. XII 544. The *-en-* stems were substantives when there were adjectives in *-o-* parallel to them, and hence in some groups of languages, particularly in Germanic, this suffix acquired the function of forming substantives from any given adjective; it had the effect of specialising the idea conveyed by the adjective, by applying it to some one person or thing that possessed the particular quality in an exceptional degree. Hence it is often found in personal names, whether they were formed from a noun consisting of a single stem, or obtained by abbreviation from a compound consisting of two stems (cp. § 18 p. 34 and Osthoff, Forsch. auf dem Geb. der Idg. Nominalstamm-bildung, II 50 f.). Thus Gr. *σφαβ-ός* 'squinting': *σφαβ-ων* 'squinter', *Σφαβ-ων* proper name, Lat. *multi-bib-u-s*: *bibō*, *rūf-u-s*: *Rūf-ō*, Goth. *raup-s* 'red': *rāud-a* 'the red one', Lith. *rūd-a-s* 'reddish brown': *rūd-ũ* m. 'autumn'. Thus *-en-* came to be used as a secondary suffix, as Avest. *mar^e-t-an-* 'mortal' (subst.) beside *mar^e-ta-* 'mortal', Gr. *τηγ-ων* *πέλεια* beside *τηγ-ρός* 'timorous, shy', Lat. *Ca-t-ō* beside *ca-tu-s*. Cp. further Lat. *hom-ō* Goth. *gum-a* O.Lith. *žm-ũ* 'human being, man', properly 'the earthly one', beside Skr. *kṣám-jm-* Avest. *z'm-* Gr. *χθόν* Lat. *hum-u-s*, Gr. *γαστρ-ων* 'glutton' from *γαστήρ* 'belly', Lat. *cachinn-ō* from *cachinnu-s*, *capit-ō* *Capit-ō* from *caput*, Goth. *vairsto-a* 'worker' from *vairsto* 'work'.

Almost all the neuter forms containing *-en-* denoted some part of the body (cp. § 57 p. 105). In some of them, as we shall see *-en-* was a secondary suffix.

Indo-Germanic. Masculine. Skr. *tákṣ-an-* (*-ān-am*) Gr. *τέκτ-ων* (*ov-ος*), beside Skr. *tákṣ-a-ti* 'does carpenter's work'. Skr. *ukṣ-án-* (*-ān-am*) Mod.Cymr. *ych* (pl. *ychen*) Goth. *aihs-a* 'ox', orig. 'the impregnator', beside Skr. *ukṣ-á-ti* 'emanat, emicat'. Avest. *arš-an-* (*-ān-em*) 'male, man', Skr. *ṛṣā-bhá-s* 'bull', for **ṛs-ṇ-bho-s*, Armen. gen. *arñ* 'of the man' (nom. *air*), Gr. *ἄρσ-ην* *ἄρσ-ην* Ion. *ἔρσ-ην* (*-εν-ος*) 'male', orig. 'making fruitful', beside Skr. *árṣ-a-ti* 'flows, streams'; cp. Skr. *vṛṣ-an-* (*-ān-am*) 'man, bull', beside *várṣ-a-ti*

makes to stream, rains'. **kū-en-* **kuy-en-* (**kū-n-* **kū-y-* **kuy-y-*) 'dog' (according to Benfey 'that which produces young often and in great numbers' compared with Gr. *κύ-ος* 'fetus' Skr. *śi-śu-ṣ* 'young creature'): Skr. *śv-án-* *śuv-án-* (acc. sing. *śv-án-am* gen. sing. *śú-n-as* loc. pl. *śv-á-su*), Armen. *sun* gen. *šan* (I § 405 p. 301), Gr. *κύ-ων* (voc. *κύ-ον* gen. *κύ-ον-ός*), O.Ir. *cū* (gen. *con*), Lith. *szū* (gen. *szu-ñ-s*). Avest. *spas-an-* 'watchman' O.H.G. *speho* 'spy', √ *spek-*. Lat. *ed-ō* (-*ōn-is*), O.H.G. *egg-o* 'devourer', √ *ed-*. Lat. *as-sedō cōn-sedō* (-*ōn-is*), O.H.G. *ana-sezzo* 'assessor' O.Icel. *drótt-sete* 'lord high steward', √ *sed-*.

Denominatives. *hom-ō* (-*ōn-is* -*in-is*) Goth. *gum-a* O.Lith. *žm-ū*¹⁾ 'human being, man', see above. Gr. *ζού-ων-ερ* (= Att. *ζυ-ων-ε*). *βόε*ς *ἐργάται*. *ἀντιμαρτες* Hesych., Goth. *ga-juka* 'comparison', beside *ζυγός* *juk* 'yoke'.

In some Indo-Germanic words in which -en- is primary there is no trace of any original use as *nomen agentis*. **iuy-en-* **iū-n-* **iuy-y-* 'young, young man': Skr. *yúv-an-* (acc. sing. *yúv-ān-am* gen. sing. *yū-n-as* loc. pl. *yúv-a-su*), Lat. *juv-en-* (-*en-is*), cp. also the form **iuy-y-kō-s* which is more widely used, § 83 p. 251; the word is no doubt connected with Lith. *jaū* O.C.Sl. *ju* 'already' see § 66 ad fin. p. 149²⁾. Skr. *ás-an-* 'stone, sling-stone', Gr. *ἄξ-ων* (-*ων-ός*, by a change of declension, see p. 350) 'javelin', cp. also Gr. *ἄξ-όν-η* 'whetstone' and *ἄξ-αυα* 'point, thorn'. Skr. *mūrdh-án-* m. A.S. *mold-a* m. 'head' (ground-form **mūdh-en-* **mūdh-en-*, cp. also I § 306 p. 243). Skr. *plih-án-* *plih-an-* *plih-an-* Lat. *li-en* (-*ēnis*) 'spleen' are among the neuter words which denote parts of the body.

Neuter. Skr. *ud-án-*, Goth. *vat-ō*, Lith. *vand-ū* and *und-ū* (which have become masc.), Gr. *ῥδ-α-το-* with *a* = *y* (nom. *ῥδ-ωρ*), 'water'. Skr. *ūdh-an-* (nom. *ūdh-ar*) Gr. *οὔθ-α-το-* (nom. *οὔθ-αρ*) 'udder'. Skr. *yak-án-* (Gr. *ῥπ-α-το-* (nom. *ῥπ-ωρ*) Lat. *jec-in-* (in

1) *žm-onū* 'wife' and *žm-onēs* 'human beings' are not parallel to this but contain the suffix of the Latin *hum-ānu-s* (cp. § 160).

2) I see little probability in Danielsson's assumption (Gramm. and etymol. Stud. I 49) that the word is merely an ablaut-variant of Gr. *αἰ(φ)νί* Skr. *āyūn-*.

jecin-or-is etc., the *-or-* having forced its way in from the nom. *jec-ur*, cp. also I § 431 c. p. 321) Lith. *jeku-os* f. pl. 'liver'. *-en-* was secondary in the word for head: Skr. *śīrṣ-an-* n. Gr. *κράν* n. for **κραῖσ-α* (*-α* = *-η*), *ἀμφί-κρανο-ς* 'two-headed' for **κραῖσ-ν-ο-*, *κράνο-ν* 'head' for **κραῖσ-ν-ο-ν* (cp. the Author, Morph. Unt. II 173 f. 227 ff., Solmsen, Kuhn's Ztschr. XXIX 69, Danielsson, Gramm. und etymolog. Stud. I, 1888, p. 40 ff.), Lat. *cernuo-s* for **cers-n-uo-s*, O.Icel. *hjars-e* m. 'head'; the words contain a neuter stem **ker-es-* (**kerr-es-* **kr-es-*), cp. Skr. *śīr-as-* Av. *sar-ah-* 'head' Lat. *cerebru-m* for **ceres-ro-* (I § 570 p. 428) and below § 134. In like manner, Gr. *ὠτί-ο* n. for **ous-η-to-* Goth. *áus-ō* n. 'ear' no doubt implies a neuter *-es-* stem, which appears in Greek in the nom. *ὠς* Dor. *ὠς*, if this represents **ou-os* and not **ous-os* (O.C.Sl. *uch-o*) (J. Wackernagel, Kuhn's Ztschr. XXIX 141, Solmsen ibid. 92). Skr. *akṣ-án-* Armen. *ak-n* Goth. *aug-ō* (cp. I § 444 Rem. 3, p. 331) 'eye', O.C.Sl. *ok-n-o* n. 'window' ¹). For the use of *-i-* stems to supplement these neuters in *-en-* as Skr. *akṣ-i* gen. *akṣ-η-ús*, see § 93 p. 279. For the nominatives in *r*, like Skr. *ádḥ-ar*, see § 118.

If the Greek infinitives in *-ειν-* (Dor. Lesb. *ην*), like *γέσσειν* 'to bear', are to be derived from **-εσεν* (which is more in accordance with known phonetic laws than to assume they came from **-ε-φεν*), we may infer an Indo-Germanic inf. in **-s-en* **-s-en-i*, which was loc. sing. Compare the Skr. inf. in *-s-an-i*, as *nē-ṣ-án-i* from *nī-* 'lead', *gr-ṇī-ṣ-án-i* beside *gar-* (pres. *gr-ṇá-mi*) 'praise'.

Aryan. Masculines (and the few Feminines that occur) are rare in Aryan as compared with the classical languages, Celtic and Germanic. Skr. *tákṣ-an-* 'carpenter' Avest. *taš-an-*

¹) The *š* of Skr. *akṣ-án-* presents certain difficulties. It has been assumed that this is also an extension of an *-es-* stem (cp. O.C.Sl. *oko* gen. *ośes-e*); but this theory is not supported by Avest. *oši-* = Skr. *akṣi-* (cp. I § 401 with Rem. 1 p. 296 f., § 556, 1 p. 411; it must be admitted however that *š* is sometimes written for *ś*, see Bartholomae, Handbuch § 100 Rem. 2 p. 43) nor by Gr. Boeot. *ὤστειλο-ς* 'eye' (cp. I § 554 p. 408). Compare also I § 427 Rem. 2 p. 314.

'sculptor', see above p. 345. Skr. *ukṣ-án-* Avest. *urš-an-* 'ox', see above p. 345. Skr. *śv-án-* Avest. *sp-an-* 'dog' see above p. 346. Skr. *yúv-an-* Avest. *yv-an-* (read *yuvan-*, Bartholomae's Hdb. § 91 a p. 40) 'young, young man'; see above, p. 346. Skr. *ás-an-* Avest. *as-an-* 'stone'; see above, p. 346. Skr. *rāj-an-* 'king' beside *raj-án-* 'government': cp. O.Ir. *rīgain* § 110 p. 335; cp. also Lat. *rēgnu-m* § 65 Rem. p. 139. Skr. *mūrdh-án-* (*-án-am*) 'head': A.S. *mold-a*, see above p. 346. Skr. *vi-bhv-án-* *vi-bhv-an-* 'excellent' beside *vi-bhāt-* and *vi-bhv-a-*, words of similar meaning. Avest. *arš-an-* 'male, man' O.Pers. *xšayāršan-* 'Xerxes' (for *xšaya-* 'ruler' + *aršan-*); see above, p. 345.

In Avestic there are a few examples of *-en-* in secondary use: *mar't-an-* beside *mar'-ta-* 'mortalis'. *puṣr-an-* 'father of a family' beside *pu-ṣra-* 'son'. *vīs-an-* 'member of a clan' beside *vīs-* 'clan'. *hazanh-an-* 'robber' beside *hazah-* 'deed of violence'. Forms like these originally existed in Sanskrit¹⁾, but they were driven out by the forms in *-in-*, see § 115.

Remark 1. In Sanskrit, the nom. sing. in *-ā* sometimes led to a transference to the *ā*-declension; e. g. *plih-ā-* f. beside *plih-an-*. Cp. *-mā* § 117 Rem. 2, *-tā* § 122 Rem. 1, and Gr.Ion. *ναῖς*, which in the oldest period was neuter (see p. 347 above), but appears later as feminine (gen. *ναῖς* etc.).

Neuters. Skr. *ud-án-* *údḥ-an-* and other words; see above, p. 346. Skr. *mah-án-* 'size': compare no doubt Gr. *μέγ-α* 'magnum', which must be a substantive used adjectivally (*μέγας*; *μέγαν* are later forms). *dadh-án-* 'sour milk' (nom. *dádhi*): cp. Pruss. *dadān* 'milk' (an *a*-stem?). *asth-án-* 'bone' (*ásthi*), *sakth-án-* 'thigh' (*sákthi*), *as-án-* 'mouth', *dōṣ-án-* 'fore-arm', *cákṣan-* 'eye' (cp. *akṣ-án-*). *áh-an-* 'day' (nom. *áhar*), *gámbh-an-* 'depth'. Avest. *ay-an-* 'day' (beside *ay-ar'*), *nānh-an-* 'nose'.

For the Sanskrit infinitives in *-s-an-i*, see p. 347 above.

Armenian. *aṛn* 'of the man' (Avest. *arš-nō*), see p. 345 above. *šun*, gen. *šan*, 'dog', see p. 346 above. *akn*, gen. *akan*,

1) The assumption of a nom. sing. *krānā* in Vedic (stem *krān-m-*), from *krānā-* 'working, active', is based upon a wrong view of the particular passages where the word occurs.

'eye', see p. 347 above. *garin*, gen. *garin*, 'Lamb' for **u₁yr-en-*: Skr. *úr-an-a-s* 'ram' (transferred to the *o*-declension), Gr. *-f₁ρ-ην* in *πολύ-ρρην* 'rich in sheep' nom. *ἀρήν* gen. *ἄρ-ν-ός* etc. 'ram' (I § 290 p. 232, § 291 p. 233). *el₁n*, gen. *el₁n*, 'stag': O.C.Sl. *jel-en-* (gen. *jelen-e*) 'stag'; it is also found in the extended forms Gr. *ἐλ-α-φ₁ος* 'stag' *ἐλλό-ος* 'young stag' for **ἐλ-ν-ος* (I § 204 p. 170 f., II § 78 p. 216), Mod.Cymr. *elain* 'hind', Lith. *él-n-i-s*, gen. *élnio*, 'stag, elk'.

Greek. The masculine (rarely feminine) *-en-* stems are numerous. Through the generalisation of certain forms of the suffix five types of inflexion arose: *ἄρ-ν-* 'ram' (acc. *ἄρ-ν-α* gen. *ἄρ-ν-ός*)¹; *ἀδ-ί-ν-* 'gland' *ἀρσ-εν-* 'male' (*ἀδ-έν-α* *-έν-ος*, *ἄρσ-εν-α* *-εν-ος*); *ἀηδ-όν-* 'nightingale' *τέκτ-ον-* 'carpenter' (*ἀηδ-όν-α* *-όν-ος*, *τέκτ-ον-α* *-ον-ος*); *πευθ-ήν-* 'inquirer' (*πευθ-ήν-α* *-ήν-ος*); *ἄγ-ων-* 'struggle' *κλιδ-ων-* 'wave' (*ἄγ-ων-α* *-ων-ος*, *κλιδ-ων-α* *-ων-ος*). No difference of function however was attached to these different forms of the suffix.

Nomina agentis. *τέκτ-ων*, *ἄρσ-ην*, *κνί-ων*, see above p. 345 f. *ἀρηγ-ών* (*-όν-*) 'helping, helper'. *ψευθ-ών* (*-όν-*) 'liar, slanderer'. *μαγ-ών* (*-όν-*) 'jawbone' (*μαγ-εῖν* 'to eat'). *τρυγ-ών* (*-όν-*) f. 'turtle-dove' (*τρυζέειν* 'to coo'). *κραγγ-ών* (*-όν-*) f. 'jay' (*κραάω* 'I cry'). *αἶθ-ων* (*-ον-* and *-ων-*) 'burning'. *στραβ-ων* (*-ων-*) 'squinter'. *γνίφ-ων* (*-ων-*) 'niggard'. *σάκπ-ων* or *σάμπ-ων* (*-ων-*) 'staff' (*σάμπ-τω* 'I support'). *κραυγ-ών* (*-ών-*) 'cryer, wood-pecker'. *πευθ-ήν* (*-ήν-*) 'inquirer'. Often it is used as a denominative suffix, denoting one who stands in some special relation to what is denoted by the original word. *τρήρων* (*-ων-*) epithet of the dove, 'little trembler' beside *τρηρός* 'timorous'. *πόρδ-ων* (*-ων-*) 'péditor', beside *πορδί* 'peditum'. *κίβδ-ων* (*-ων-*) 'workman who purifies metals from the dross', beside *κίβδη* 'dross'. *δρομ-ων* (*-ων-*) 'runner', term applied to a light kind of ship and a kind of lobster, beside *δρομος* 'course'. *γάστρ-ων* (*-ων-*) 'glutton', beside *γαστήρ* 'paunch'. *γνάθ-ων* (*-ων-*) 'thick-cheek, puff-cheek', beside

1) The nom. *ἀρήν* occurs in an Att. inser. earlier than 450 B. C., C.I.A. I 4, 22.

γνάθος 'cheek'. *γύσκι-ων* (*-ων-*) 'fat-paunch, pot-belly', beside *γύσκη* 'stomach, great-gut'. We should add a number of personal names, such as *Στραβ-ων* (*στράβων*, *στραβός*), *Χρέμ-ων* (cp. O.H.G. *Grimmo*), *Ἀγάθ-ων* (*ἀγαθός*), *Φίλ-ων* (*φίλος*), *Δρομ-ων* (*δρομίων*, *δρομός*), *Ῥύκ-ων* (cp. O.H.G. *Wolfo*).

Other *-en-*stems are more isolated, and it is not clear how they are to be connected with the different uses of the suffix which we can trace in the parent language. Acc. *πίκ-ν-α* gen. *πίκ-ν-ός* (nom. *πινίξ* is a new formation) a place of public assembly in Athens (cp. the Author, *Morph. Unt.* II 169). *τέτ-την* (*-την-*) 'tender'. *αἰχ-ήν* (*-ήν-*) 'neck'. *εἰκ-ών* (*-όν-*) 'image'. *σταγ-ών* (*-όν-*) f. 'drop'. *πυγ-ών* (*-όν-*) f. 'length of an ell'. *ἀγ-ών* (*-ών-*) 'contest'. *κλίθ-ων* (*-ων-*) 'wave, billow'. *λειχ-ήν* (*-ήν-*) 'scab, eruption'.

In consequence of the similar termination of the nom. *-ων*, stems of this kind sometimes followed the inflexion of stems in *-οντ-*. *ἄκ-ων*, see above, p. 346. *θεράπ-ων* (*-οντ-*) 'servant' beside *θεράπ-ν-η* *θεράπ-αινα* 'maid-servant'. *λείων* (*-οντ-*) 'lion' beside *λεό-παρδο-ς* 'leopard' (like *αἰμο-βαφής* *αἰμό-θετο-ν* § 112 p. 340), *λέαινα* 'lioness' and Lat. *leō* (*-ōn-*). Cp. the Author, *Morph. Unt.* II 168 f. 197.

The neuters were associated with the neuter stems in *-γεν-* and *-μεν-* and all alike underwent a change of inflexion due originally to their extension by the suffix *-το-*. See § 82 p. 250. *κάρα* 'head' for **καρᾶσ-α* gen. *καῶ-τός*, *κρή-δεμνο-ν* 'head-band'; *ῥῥά-τος*, nom. *ῥῥά-ωρ* 'water'; *οὔθ-α-τος*, nom. *οὔθ-αω* 'udder'; *ῥῥα-τος*, nom. *ῥῥα-ωρ* 'liver'; *οὔ-α-τος* *ὠ-τός*, nom. *οὔς* 'ear'; see p. 347 above. *ἄλειφ-α* (also *ἄλειφ-αω*), gen. *-α-τος*, 'oil for anointing', like Lat. *ungu-en*.

Infinitives in *-ειν* for *-τιν-*; for these forms see above, p. 347. It is possible, but it can hardly be proved, that the Doric infinitives like *φέρειν* are the locatives of an abstract root-noun in *-εν-* (*ἄγ-ειν* for instance, beside *ἀγ-ών*, as *αἰ-(f)έν* beside *αἰ-(f)ών*, § 116).

Italic. Masculine (rarely feminine) *-en-* stems are numerous. Lat. *car-ō* *car-n-is* f., Umbr. *kar-u* 'pars' *kar-n-e* 'carne

earni' Osc. *car-n-eis* 'partis', beside Umbr. *kar-tu* 'dividito, distribuito': O.Ir. *car-n-a* 'flesh'. Lat. *hom-ō -ōn-is* and *-in-is*, Umbr. *hom-on-us* (*ō*) 'hominibus' Osc. *humuns* (*ū*) nom. 'homines': Goth. *gum-a* etc., see p. 346. Umbr. *abr-un-u* (*ū*) 'aprum' (like Lat. *burdō* beside *burdu-s* and the like); cp. Lat. *aprun-culu-s*. Osc. *sverrun-ēi* (*ū*) dat. sing. the title of a magistrate.

If we except *carō*¹⁾, the different forms of the suffix were levelled in Latin in such a way that all the cases but the nom. sing. had either *-en-* *-in-* or *-ōn-*. *-en-* is found only in *juven-*, but there it is not phonetically regular, see I § 65 Rem. 3 p. 53. We cannot determine how far Lat. *-in-* represents Idg. *-en-* or Idg. *-on-* respectively.

In Latin it forms primary *nomina agentis*, all with *-ōn-*. *ed-ō ed-ōn-is*, *as-sedō*, see p. 346 above. *in-cub-ō*: O.H.G. *hūf-o* 'heap'. *ger-ō*. *vol-ō*. *bib-ō*. *rap-ō*. *mand-ō*. *err-ō*. *-ōn-* is also found in denominatives, some of which are also *nomina agentis*, while some denote persons or things which stand in some other special relation to the thing denoted by the original word; such formations were suggested by groups of words like *cachinn-ō* beside *cachinnāre* *cachinnu-s*, *fabul-ō* beside *fabulārī* *fabula* and others. Examples are: *gerr-ō* from *gerrae*. *simpul-ō* from *simpulu-m*. *mer-ō* from *meru-m*. *linte-ō* from *linteu-m*. *nebul-ō* from *nebula*. *bucc-ō* from *bucca*. *cox-ō* from *coxa*. *petr-ō* from *petra*. *strig-ō* from *striga*. The same *-ōn-* forms many personal names, as *Capit-ō* from *caput*, *Nās-ō* from *nāsu-s*, *Cat-ō* from *catu-s*, *Rūf-ō* from *rūfu-s*. The following nouns denoting inanimate objects are nearly related to these appellatives: *pīsō* (*-ōn-* in oblique cases and so in all these words) 'mortar' (*pī(n)sere*), *runc-ō* 'hoe' (*runcāre*), *sabul-ō* 'coarse sand' from *sabulu-m*, *pēr-ō* 'a boot rather too loose at the top' from *pēra* (cp. O.H.G. *gēro* from *gēr* and the like p. 354); and no doubt *pont-ō* 'pontoon' from *pōns*. — In *hom-ō -ōn-* gave way to *-in-*, when the consciousness of its original meaning (see p. 346) had died out.

1) Cp. also *cor-n-* in *cor-n-ix* beside Umbr. *cur-n-ac-o* 'cornicem' Gr. *κροῦν-η* 'crow'.

Other *-en-*stems are more isolated in point of meaning. *juv-en-* (nom. *juven-i-s*, see § 93 p. 281), cp. *juven-cu-s* Umbr. *ivengar* pl. 'juvencae' § 83 p. 251, *juven-tu* § 80 p. 239, *jūn-t-x* § 110 p. 335: Skr. *yáv-an-* etc., see p. 346. *pect-en* (*-in-*), *li-en* (*-ēn-*) (Skr. *plih-ān-*, p. 346), perhaps the Idg. nom. ended in **-ēn*; cp. also *sanguen*, the older nom. of *sangu-in-is* etc., afterwards replaced by **sanguin-s*, whence *sanguis*. *turb-ō* (*-in-*). *ōrd-ō* (*-in-*). Some few were feminine, as *aspergō* (*-in-*), *compāgō* (*-in-*), *grandō* (*-in-*, also m.), *margo* (*-in-*, also m.), *virgō* (*-in-*). Lastly, there are some masculines formed with *-ōn-*, which may or may not be connected with the class of *-ōn-* forms just discussed, as *cūdō*, *carbō*, *truō*.

Neuters. *ungu-en* (*-in-*) Umbr. *um-en* 'ungen' (umen is otherwise explained by Pauli, *Altital. Stud.* V 102 f.): O.Ir. *imb imm*, gen. *imme* (stem *imb-en-*) n., O.H.G. *anch-o* m. (no doubt originally neuter) 'butter'. *ingu-en* (*-in-*): Gr. *ād-ēr* gen. *ād-ēr-os* 'gland', common ground-form **pg-en-*, cp. also O.Icel. *okk-r* 'swelling'. *pollen* (*-in-*), originally **pol-en* **pol-n-is*; see I § 208 p. 175. *jecur* **jecin-is* produced the form *jecin-or-is*; see above, p. 346 f.

Old Irish. The masculines (and the rarer feminines) have partly *-on-* (Gall. *Lingon-es*, *Senon-es* and the like), partly *-ōn-*. We do not find any thing like a large group of *nomina agentis*.

The following have pr. Celt. *-on-*, nom. sing. in *-ō* (cp. *-tiu* for *-tiō*, § 115). *cū* (pl. *coin*) Mod.Cymr. *ci* (pl. *cien*) 'dog': Skr. *śvā* etc., see p. 346 above. *esc-ung* 'eel' ('bog-snake'): cp. Lat. *angu-en* n. beside *angui-s*. *derucc* (gen. *dere-on*) 'acorn'. *Miliuc* (gen. *Mile-on*), *Glaisiuc*, proper names. Cp. also *triath*, gen. *trethan*, 'sea' = Gr. *Tōtēr-wr*.

The following have pr. Celt. *-ōn-*, nom. sing. in **-ōn-s* (cp. Ose. *-iuf* *-íf*, § 115 Rem. p. 360). *ar-u* (pl. *arain*) 'kidney' is no doubt to be compared with Lat. Praenest. *nefrōn-ēs* Lanuv. *nebr-un-din-ēs*, O.H.G. *nior-o* (pr. Germ. **ne(z)ur-en-*) 'kidney', even though the form of the root-syllable in Celtic (Mod.Cymr. *eirin*) is difficult to explain. *lecc-o* 'cheek'. *id-u* 'pangs of travail'.

fiad-u 'witness'. *lach-u* 'duck'. *Ān-u* 'mater deorum Hibernensium'. Many of the substantives of this group were feminine; but I do not know how far the gender has been ascertained in particular instances.

It is not probable that *ing-e* 'nail' (gen. *ingan*) is a formation of the same sort as *men-me* 'mens' (gen. *menman*) for **-men-s* (§ 117).

Remark 2. "It can scarcely be maintained that the word for 'nail' in O.Ir. was an *n*-stem. In any case Stokes' paradigm [Bezzenb. Beitr. XI 92] does not agree with the facts in Old Irish. The following is much more likely; — Insular Celt. **enguinā* Cymr. *ewin* f., O.Ir. nom. *ingen*, a gloss to 'ungula' (hitherto taken as gen. sing.), dat. *ingin*, dat. pl. *ingnib* for **inginaib*. In Mid.Ir. the word was declined, though not entirely, as an *n*-stem. The nom. sing. was *inga inge* just as *persa* = O.Ir. *persan* (p^{er}sona). For the nom. pl. we still have *ingne*, which is regularly developed from **ingina*, but cannot be satisfactorily explained as any case of the *n*-inflection". Thurneysen.

Neut. *imb* 'butter': Lat. *ungu-en* etc., see above p. 352.

Germanic. Here the *-en*-suffix attained its widest use in a mass of new formations. Its fertility is especially remarkable in the class of *nomina agentis* and the nouns connected with them, in which *-en-* appears as a secondary suffix with what may be called an 'individualising' function, i. e. that of converting adjectives into substantives. Any adjective could be so converted by adding *-en-* to its stem. These derived forms were brought into close syntactical connexion with the definite article (demonstrative-stem **to-*), and so arose what is known as the 'weak' declension of adjectives. Further Idg. and Germ. *-ōn-* was associated with Germ. *-ō-* (Idg. *-ā-*) on the analogy of the relation between Germ. *-an-* and *-a-*, and so a weak declension was developed for the adjectival *ā*-stems parallel to that of the *o*-stems.

Masculine. *Nomina agentis*. Goth. *áuhs-a* O.H.G. *ohs-o* O.Icel. *ox-e ux-e* 'ox': Skr. *ukṣ-ān-* etc., see p. 345 above. O.H.G. *speh-o egg-o -segg-o* see p. 346 above. Goth. *skul-a* O.H.G. *scol-o* 'debtor'. Goth. *un-vita* 'ignorant one, fool' O.H.G. *wizz-o* 'knower, sage'. Goth. *nuta* 'fisher'. O.H.G. *herj-zogo* O.Icel.

her-toge 'duke' pr. Germ. **tug-én-* and O.H.G. *heri-zoho* pr. Germ. **lúx-en-*. O.H.G. *bot-o* O.Icel. *boð-e* 'messenger'. O.H.G. *geb-o* O.Icel. *-gjaf-e* 'giver'. O.H.G. *wār-queto* 'veridicus' O.Icel. *hrōðr-kreðe* 'praedicator laudis' pr. Germ. **kyeð-én-*. Mid.H.G. *schad-e* O.Icel. *skað-e* 'damager' pr. Germ. **skáp-en-*. Goth. *han-a* O.H.G. *han-o* 'cock', beside Lat. *can-ere*. O.H.G. *sceid-o* 'sequester'. Further we find denominative forms, some of them also *nomina agentis*, and some denoting persons or things which stand in some other special relation to the idea of the original word (including many epithetised compounds with *ga-*). Goth. *gum-a* O.H.G. *gomo* O.Icel. *gum-e* 'human being, man'; Lat. *hom-ō* etc.; see above, p. 346. Goth. *vaursto-a* 'worker' from *vaursto* n. 'work'. Goth. *spill-a* 'announcer' from *spill* n. 'tale'. Goth. *ga-razna* 'neighbour' from *razn* 'house'. O.H.G. *stiur-o* O.Icel. *stjör-e* 'steersman' from *stiura* f. 'rudder'. O.H.G. *urteil-o* 'judge' from *urteil* 'sentence'. O.H.G. *hinc-o* 'spouse' O.Icel. *hý-e* 'attendant' beside Goth. *heiva-* 'house'. O.H.G. *heim-o* 'cricket on the hearth' from *heim* 'house, home'. O.H.G. *gi-lanto* 'fellow-countryman' from *lant* 'country'. Further we have names of peoples, such as *Teutōn-es*, O.H.G. *Sahso*, *Franko*, and names of persons, such as O.H.G. *Wolfo*, *Harto*, *Berhto*. The following have a close connexion with the *nomina agentis*: A.S. *drop-a* 'drop' ('dripper'), O.H.G. *chleb-o* 'sticker, glue' and the like.

The following are substantives formed from adjectives: Goth. *liuta* 'hypocrite' from *liut-s* 'hypocritical', *veiha* 'priest' from *veihs* 'holy', O.H.G. *wīzago* 'soothsayer' from *wīzag* 'marking, surmising', and others.

Through the popularity of the *-n-*declension substantival *o*-stems denoting persons were sometimes made into *-en-*stems without any alteration of meaning, e. g. Goth. *svaithra* beside O.H.G. *soechur* Skr. *śvāśura-s* Gr. *ἐνυγό-ς* 'father-in-law'.

We find another class of denominatives, akin to those already discussed, denoting objects of the same shape or form as the thing described by the original substantive (cp. Lat. *sabulō*, *pērō* p. 351). O.H.G. *gēr-o* O.Icel. *geir-e* 'wedge-shaped piece, instrument, or territory', from *gēr* 'spear'. A.S. *mūd-a*

O.Icel. *mun-e* 'orifice', beside *muð* 'mouth'. Mid.H.G. *kamb-e* *kamm-e* 'comb-like instrument', from *kam* 'comb'. O.Icel. *nagl-e* 'nail', from *nagl* 'finger-nail'. O.Icel. *odd-e* m. 'triangle', from *odd-r* 'spear-point'. Add certain words in *-ōn-* (f.), as O.H.G. *bart-a* 'axe, broad-axe' beside *bart* 'beard'. Cp. Kluge, Nomin. Stammbildungslehre § 79 p. 37.

The most numerous of the remaining substantives are the abstract nouns and the names for parts of the body. Abstract nouns: Goth. *ah-a* 'thought, understanding', *ga-taira* 'cleft', O.H.G. *scad-o* O.Icel. *skað-e* 'harm', O.H.G. *merz-o* 'pain', *gi-feho* 'joy'; add also some words in *-ōn-* (f.), as Goth. *lub-ō* 'love', *brinn-ō* 'fever', O.Icel. *tak-a* 'taking in, assumption'. One or two of the names for parts of the body are proethnic: A.S. *mold-a* 'head' see p. 346, O.Icel. *hjars-e* 'head' see p. 347, O.H.G. *nior-o* (O.Icel. *nȳr-a* n.) 'kidney'; see p. 352. With these, others were associated: Goth. *lōf-a* 'flat of the hand', O.H.G. *naþol-o* O.Icel. *naft-e* 'navel', O.H.G. *dūm-o* (cp. § 72 p. 171). Also feminine forms in *-ōn-* as O.H.G. *gall-ā* 'gall' (on the other hand A.S. *ȝealla* is m.), Goth. *tugg-ō* O.H.G. *zung-a* O.Icel. *tung-a* 'tongue', O.H.G. *zēh-a* 'toe'.

Feminine. The original stems in *-ōn-* were associated in Germanic with those in *-ā-*, not so intimately indeed as were the *-iōn-* stems, but closely enough to be attracted into the feminine gender, though we must observe that some of the abstract nouns in *-ōn-*, like those in *-iōn-*, may have been feminine before they passed into Germanic. On their analogy feminines in *-ōn-* were formed at will from the masculine *-en-* stems which denoted living beings. O.H.G. *maga-zoha* 'nutrix' from *-zoho -zogo*. O.Icel. *kveld-riða* 'noctivaga, strix' from *-ride*. Goth. *ga-raznō* 'neighbour (f.)' from *ga-razna*. O.H.G. *gi-mahha* 'wife' from *gi-mahho*. O.H.G. *hūwa* 'wife' from *hūwo*. O.H.G. *wīzaga* 'sooth-sayer (f.)' from *wīzago*. Goth. *svaihrō* 'mother-in-law' from *svaihra*. Goth. *qinō* O.Icel. *kona* 'woman' contrasted with Gr. γυνή, Goth. *viduō* 'widow' contrasted with Lat. *vidua*. As an example of the weak adjectives we may take Goth. *blind-ō* beside masc. *blind-a* 'caecus'.

Neuters, in the genitive and other cases always with *-en-*. Goth. *vat-ō* 'water', Goth. *áus-ō* O.H.G. *ōr-a* 'ear', Goth. *áug-ō* O.H.G. *oug-a* 'eye', see above p. 347. Goth. *hairt-ō* O.H.G. *herz-a* 'heart'. O.H.G. *wang-a* 'cheek'. O.Icel. *nȳr-a* 'kidney' beside O.H.G. m. *nior-o* (on the other hand O.Icel. *hjars-e* m. beside Skr. n. *śirś-án-*, cp. also O.H.G. *anch-o* m. 'butter' beside Lat. *ungu-en* n. O.Ir. *imb* n.). Along with these names for parts of the body we find a few other substantives, as Goth. *þáirk-ō* 'hole', *áugu-daúrō* 'window' and *káurnō* 'corn' (a derivative of *káurn*, parallel to masculines like O.H.G. *gēr-o* and to feminines like O.H.G. *bart-a* p. 354 f.). In the weak adjectives: Goth. *blind-ō* beside masc. *blind-a*.

Balto-Slavonic. Here the *-en-* stems are rare; a large part of them have fallen out of the *n*-declension through various processes of re-formation. Generally the suffix appears in the form *-en-* in all cases except the nom. sing.

Lith. *el-n-* in *ėln-i-s* 'stag, elk' O.C.Sl. *jelen-* m. (nom. *jelen-i*) 'stag': Armen. *eln* etc., see p. 349 above. Lith. *szirsz-ũ* m. O.C.Sl. *srš-en-ĩ* m. 'horse-fly, hornet', common ground-form **krs-en-*: cp. O.H.G. *hornaz* 'hornet' pr. Germ. **χurz-n-ata-z* (I § 303 p. 240). From an original **dei-en-* (**di-en-* **dī-en-*) **di-n-* (**dej-n-*) 'day' were developed Lith. f. *dė-n-à* Pruss. acc. *dei-n-a-n* O.C.Sl. gen. *dī-n-e* (nom. *dī-nĩ* m.): cp. Skr. *dīn-a-m* Lat. *nūn-dinae* (J. Schmidt, Kuhn's Ztschr. XXV 23).

Lith. *szũ* (aus **szũ-ũ*, I § 184 p. 160), gen. *szu-ñ-s* acc. *szũ-n-ĩ*, m. 'dog', also *szun-i-s* m.: Skr. *śv-á* etc., see p. 346 above. *rud-ũ* m. 'autumn' beside *rūd-a-s* 'reddish-brown': cp. Lat. *Rūf-ō* Goth. *rāud-a*, see p. 345 above. We have an old neuter in *vand-ũ* m. 'water' (Lett. *ūd--ē'n-s*): Skr. *ud-án-* etc., see above p. 346.

O.C.Sl. *step-en-* m. 'step', *kor-en-* m. 'root', nom. *stepen-ĩ* *koren-ĩ*. *vod-a* f. 'water' (inflected as an *a*-stem) perhaps comes from an Indo-Germanic nominative in *-ō*.

§ 115. The Suffix *-ien-*¹⁾. This Suffix, which appears in the forms *-ien-* *-ion-* *-iēn-* *-iōn-*, *-ijen-* *-iion-* *-iĕn-* *-iġōn-* and *-in-* *-in-* (*-iŷ-* *-iŷ-*) arose in derivatives from the stems in *-io-* *-i-* and *-ī-*. We must distinguish two strata in this class of nasal stems.

1. Forms corresponding to denominatives like Lat. *hom-ō* Lith. *rud-ū* Av. *mar't-an-* (§ 114), as Skr. *abhimātin-* 'plotting' (*abhi-māti-ś* 'plot'), *ovpariōw* 'the heavenly one' (cp. *ὀυράνω-ς*), Lat. *vulpiō* (*vulpēs*), Goth. *arbja* 'heir' (*arbi* n. 'heritage').

2. Abstract Substantives like those mentioned on p. 341 f. e. g. *cap-iō*, which, if we may judge from *δατίv-η* and other examples, once existed in Greek as well as elsewhere.

The custom of extending all kinds of stems by an *-n*-suffix remained in full force through most of the stages in the history of the separate languages, and hence the class of stems which we are now considering was continually enlarged. But we are justified in referring all such nouns as Goth. *arbja* to the suffix *-ien-* rather than to *-en-* (§ 114) — although *a priori* the word might be analysed either *arb-an-* or *arbja-n* quite as naturally as *arb-jan-* (cp. e. g. *vaŭrstr-an-* or *vaŭrst va-n-*) — simply because they created no new variety of suffix, that is, none which was not in existence in the proethnic period, but merely reproduced the original *-ien-* type in one or other of its forms.

On the other hand it must be admitted that this suffix had only just begun to be used independently before the separation of the languages. Indeed there appear to be no examples of particular words that contain it which are certainly proethnic; notice however such parallels as Skr. *praśn-in-* 'questioner' A.S. *fricgea* 'herald' and abstract nouns like Lat. *ration-* = Goth. *raþjōn-*, Lat. *mentio* = O.Ir. *er-mitiu*, which are mostly derived from Indo-Germanic stems in *-ti-*, see § 100 p. 294.

Aryan. Here we find only denominatives with the suffix

1) Cp. Leo Meyer's treatise quoted p. 294 footnote.

in the form *-in-*¹⁾, which spread through all the cases in the proethnic period of Aryan; e. g. nom. pl. *-in-as* instead of **-iān-as*, loc. sing. *-in-i* instead of **-iān-i*. During the same period *-i-* replaced *-ja-* (= *-iṇ-*) in the 'middle' cases (e. g. Skr. *arct-bhyas* Avest. *kaini-bjō*) and *-i-* replaced *-iā* in the nom. sing. (Skr. *arct* Avest. *kaini*) on the analogy of the *-en-* stems (Skr. dat. abl. pl. *-a-bhyas*, nom. sing. *-a*).

Skr. *arctn-* 'beaming from *arct-* 'beam', *cittin-* 'intelligent' from *cittī-* 'understanding', *ūrmīn-* 'billowy' from *ūrmī-* 'billow', *atithin-* 'wandering' from *ātithi-* 'guest'. Avest. *kainin-* f. 'girl' from *kanyā-* Skr. *kanyā* 'girl'. Gr. *καιρό-* 'new' (**και-ρο-*); for the meaning of the suffix compare Lat. *pūs-iō* 'little boy'. But we find that the use of *-in-* as a derivative suffix has spread by analogy to other than *-o-* stems, almost exclusively however to those in *-o-* (cp. Gr. *μαλακ-ίον* from *μαλακό-*, Lat. *libell-ōi* from *libellu-*, Goth. *vaurstō-ja* from *vaurstō*); it ousted *-an-*, which remained only in Avestic (see § 114 p. 348). Skr. *parṇ-in-* Avest. *per'n-in-* 'winged', beside Skr. *parṇā-m* 'wing'. Skr. *yāv-in-* 'rich in corn'. Avest. *yēv-in-* m. 'fields', beside Skr. *yāva-s* 'corn'. Skr. *śvan-in-* 'leading dogs', from *śvan-* 'dog'. O.Pers. *vīp-in-* 'belonging to a clan' (Avestic shows the older form *vīs-an-*), from *vīp-* 'clan'. Skr. *-yin-* after vowels, e. g. *svadhā-yin-* 'he to whom the svadhā belongs' is like *-jī-* (Lith. *mō-jī-s*) p. 122 footnote 2, and *-jī-* § 110 p. 336.

In Sanskrit forms like *mad-in-* 'intoxicating, rejoicing' (from *māda-s* 'intoxication, joyous excitement') were referred to kindred verbs (*māda-ti*), and hence *-in-* acquired the character of a primary suffix. See Whitney, Skr. Gram. § 1183.

-min-, and *-vin-* were no doubt special formations in Sanskrit; examples are *ṛg-min-* 'singing, jubilating' (beside *ṛg-mītya-* 'worthy of praise'), *namas-vīn-* 'paying reverence.' Cp. below Gr. *σταιμίν-*.

1) Prof. W. Streitberg was the first scholar who clearly recognised that Ar. *-in-* was derived from the original *-iēn-*. I have followed him also in regarding *-i-* as the weak form of *-iō-*, in § 116.

Greek. *-ιον- -ων-* appear beside *-ιο-*, as in *οὐραν-ίων (-ων-)* 'the heavenly one, dweller in heaven' beside *οὐραν-ιος* 'heavenly', *Κρον-ίων (-ιον- and -ων-)* 'the descendant of Kronos' beside *Κρόν-ιος* 'belonging to Kronos'. Generally however *-ων-* is an independent suffix. *Ἀτρε-ίων* 'son of Atreus', from *Ἀτρεΐ-ς*. *μαλακ-ίων* 'weakling', from *μαλακό-ς* 'weak'. *δειλακρ-ίων* 'wretch, miserable creature', from *δειλακρο-ς* 'very wretched'.

-ιν- appears in *Ἀδρηστ-ίν-η* 'daughter of Adrestos' *Εὐην-ίν-η* 'daughter of Euenos' beside *Ἀκρισ-ιών-η* 'daughter of Akrisios'. Further, in *δωτέιν-η* 'gift' beside *δω-τι-ς* 'gift', cp. Lat. *datiō* beside *dōs*. This form justifies us in classing here the words *δελφίν-* m. 'belly-fish, dolphin' (cp. Skr. *garbh-in-* 'pregnant'), *ἀκτ-ίν-* f. 'beam, of light', *πηρ-ίν-* f. 'scrotum', *ὠδ-ίν-* f. 'travail', *γλωχ-ίν-* f. 'point, end' (cp. *γλωσσα* for **γλωχ-ια*). The weak form of the suffix was adopted in all the cases, as *-in-* in Aryan. Closely parallel to these are words in *-μῖν-*: *στα-μῖν-* and *στα-μῖν-* m. 'wood that stands upright', *ὄηγ-μῖν-* f. 'surge, breaker' (beside *ὄηγ-μα* 'a breaking'), *ύσμῖν-* f. and *ύσμῖν-η* 'flight' (for the *-σ-* cp. § 72 p. 173.). The nom. sing. ends in *-is* for **-ιν-ς-*, for which *-ιν* was substituted in later Greek.

Italic. *-iōn-* in the masculine is seen in Lat. *vulpiō* from *vulpēs*, *pellīō* from *pellī-s*, *restīō* from *restī-s*, *cūrīō* 'head of a curia', from *cūria*, *centuriō* from *centuria*, *laniō* from *lanīu-s*; and it is common as an independent suffix, e. g. *libell-iō* from *libellu-s*, *cār-iō* 'one wasted by sorrow' from *cūra*, *tenebr-iō* from *tenebrae*, *mīr-iō* from *mīru-s*, and the substantives formed from the numerals, *ūn-iō* *bīn-iō* *tern-iō* and so forth. Some of these masculines had a diminutival sense, as *homunc-iō* *senec-iō* *pūs-iō* *pūmil-iō*, cp. Avest. *kainin-* p. 358. The Umbr. *Vuf-iun-e* *Vof-ion-e* should be mentioned here.

Secondly we have the feminine abstract nouns in *-iōn-*, and *-in-* (*-īn-*?) in Umbro-Samnite; this establishes a variation in the form of the suffix in different cases for the proethnic Italic period. Lat. *com-mūniō* beside *com-mūni-s*; Goth. *ga-māinei* 'community' beside *ga-māini-* 'communis'; *al-luv-iō* beside *al-luv-iu-m*, *al-luv-iē-s*, *con-tāg-iō* beside *con-tāg-iu-m* ob-

-sid-iō beside *ob-sid-iu-m*, cp. Goth. *ga-riud-jō* beside *ga-riud-i*. The following examples show *-iōn-* in independent use, so that it appears as a primary suffix: Lat. *leg-iō re-ligio* Osc. *leg-in-ei* 'legioni, cohorti' *leg-in-um* 'legionem, cohortem', Lat. *cōn-spiciō*, *reg-iō*, *cap-iō ūsū-capiō*, *opīn-iō*; Umbr. *fer-in-e* perhaps 'feretro', tribrišu 'ternio' abl. *tribris-in-e*, Osc. *tang-in-om* 'sententiam' gen. *tang-in-eis*, tribarakk-iuf 'aedificatio'.

The form *-tiōn-* *-tin-* (*-tīn-?*) is especially frequent and largely superseded Idg. *-ti-*: Lat. *men-tiō* (O.Ir. *er-mitiu* 'honour'), *ra-tiō* (Goth. *ra-þjō* 'ratio'), *da-tiō* (cp. Gr. *δο-τῖν-η* 'gift'), *jūnc-tiō*, *occupa-tiō*, *tribū-tiō*; Umbr. *na-tin-e* 'natione, gente', Osc. *medica-tin-om* 'indicationem', *úit-tiuf* 'usio, usus', *frukta-tiuf* 'usus, fructus', *statíf* 'statio, statua'. Cp. § 100 p. 300. With Lat. *exerci-tiō* compare *exerci-tiu-m*, with *dic-tiō* the Osc. *med-dizud* 'iuris dictione', which no doubt comes from **med-dihtio-* as *Bansae* from **Bantiā-* (I § 502 p. 368 f.); see § 163 under *Italic*.

Remark. The Umbrian nominative termination *-iu* stands for pr. Ital. and pr. Idg. *-iō*. On the other hand, Osc. *-iuf* and *-iff* stand for **iōns* **-ins* (**-ins?*). The latter were later dialectic formations (cp. Lat. *sanguis* Gr. *αἷμα*; and other similar forms, and see § 114 p. 352, § 117 under Old Irish). The late origin of the ending *-ns* explains the special treatment of this group of sounds in these words see I § 209 p. 177, § 655 p. 506.

In the Sabine dialect we find also the form *-iēn-* *ner-iēn-em* 'fortitudinem', nom. *ner-io*, gen. also *Nηρίν-ης* (Lydus de mens. IV 42), parallel to *ner-ō* 'brave' *Nerō* (cp. Gr. *ἄρδω-ων*) from Idg. **ner-* 'man'. *An-io* gen. *-iēn-is* (amongst the Romans declined after the Latin fashion, *-iōn-is*). Should such forms be regarded as derivatives from words with the suffix *-iē-* (§ 109) (cp. *Ner-ia*), which would explain the *ē*?

Old Irish. Besides *Eriu* 'Ireland' (gen. *Erenn*; for the *nn* cp. § 117 Rem. 3) the only certain examples are the forms which correspond to the Latin feminine abstract nouns in *-tiō*: *air-itiu* f. 'accipere': Lat. *ēemptiō*, *aig-thiu* f. 'fear' and others. All the cases, except the nom. sing., have *-tin-*; there is only the dat. (loc.) sing. with its by-form in *-te* to vouch for **-tīon* in early Irish. See § 100 p. 301.

In Gallic *-iōn-* is common: we have names of towns like *Brigantio* (compared with the participial stem *brigant-* 'projecting', O.Ir. *Brigit* = Skr. *bṛhat-ī* § 110 p. 337), *Divio*, *Cabellio*; names of tribes like *Suessiōn-es*, *Κορριων-ες*.

Germanic. Masc. *-jan-* (like *-an-*). Goth. *arbja* O.H.G. *arpeo* 'heir, beside Goth. *arb-i* n. 'heritage'. Goth. *bandja* 'prisoner', beside *band-i* f. 'chain'. Goth. *vái-dēdja* 'evildoer' Mid.H.G. *übel-tæte* A.S. *yfel-dæda* 'evildoer', beside Goth. *ga-dēdi-* f. 'deed'. Goth. *ga-máinja* 'partaker', beside *ga-máini-* 'communis'. The suffix is more frequently independent. Goth. *mana-maurþrja* O.H.G. *murdr-eo* 'murderer', from Germ. **murþra-* 'murder'; Goth. *timr-ja* 'carpenter', beside O.H.G. *zimbar* 'timber'; *fisk-ja* 'fisher', beside *fiska-* 'fish'; *vaurstv-ja* 'worker', beside *vaurstv* 'work'; O.H.G. *scirn-o* 'buffoon', beside *scern* 'jest'; *scar-io* *scaro* 'head of a troop' beside *scara* 'troop'. It has the character of a primary suffix in e. g. Goth. *arbi-num-ja* 'inheritor, heir', O.H.G. *nōt-num-eo* 'raptor', O.H.G. *sceph-eo* *scaffo* 'conditor', *fer-io* *fero* 'sailor'. Feminines (cp. O.H.G. *maga-zoha* etc. § 114 p. 355): Goth. *arbjō* 'heiress', O.H.G. *ge-betta* O.Icel. *bedja* 'bedfellow (f.), wife'.

The form *-iōn-* became incapable of denoting male persons (notice that masculines like Gr. *τεχνία-ς* Lat. *agricola* O.C.Sl. *sluga* are foreign to Germanic). It was preserved on the other hand in names of things which in form are parallel to Goth. *arbja* etc. (also in a few names of animals), which then became feminine. Goth. *snōrjō* 'basket woven out of string', beside O.H.G. *snuori-* f. 'string'. O.H.G. *bulga* 'leathern sack', beside *balgi-* m. 'bag'. O.H.G. *hārja* 'hair garment', beside *hār* 'hair'. Goth. *ga-timrjō* O.H.G. *zimbirra* 'building', beside O.H.G. *zimbar* 'timber'. O.Icel. *birkja* 'birch-sap', beside *bjqrk* 'birch'. O.Icel. *gedda* 'pike', beside *gadd-r* 'thorn, spine' (cp. Lat. *stellio* m. 'star-lizard, newt' from *stella*).

Feminine abstract nouns in *-iōn-*, whose gender dates from the pre-Germanic period. Goth. *gariudjō* 'modesty', side by side with *ga-riud-i* n. (same meaning) (cp. Lat. *alluviō* and *alluvium*), beside *ga-riup-s* 'modest, decent'. O.Icel. *vitra* 'sagacity' beside

vit-r 'sagacious'; *sālu* 'luck', beside *sall* 'lucky'. The suffix has the character of a primary suffix in Goth. *ga-runjō* 'inundation', *sakjō* 'strife', A.S. *æsce* 'question', O.Icel. *þykkja* 'love'. We also find *-iōn-*, but this was not fertile in Germanic, which contrasts with its history in Italic and Irish: Goth. *ra-þjō* 'reckoning' (Lat. *ra-tiō*), O.Icel. *þrætta* 'strife'. Parallel to *raþjō* is O.H.G. *redia*, a strong feminine, cp. Lat. *exercitiū-m* beside *exercitiō*. Side by side with *-iōn-* is the form *-in-*, found in abstract denominatives, especially in those derived from adjectival stems: Goth. *aglāitei* 'rudeness' side by side with *aglāiti* n. (the same), *magapei* 'maidenhood' beside *magapi* 'maiden', Goth. *gamāinei* O.H.G. *gimeini* 'community' beside Goth. *ga-māini-* 'communis' (Lat. *communiō* f. beside *com-mūni-s*), Goth. *gōdei* O.H.G. *guoti* 'goodness, excellence' beside Goth. *gōþ-s* 'good', Goth. *managei* O.H.G. *menigt* 'crowd' beside Goth. *manag-s* 'many, much'. We have seen reason for believing that the same *-in-* is contained in the suffix *-io-ga-*, as in O.H.G. *Berhting*, § 88 Rem. 3 p. 267.

Slavonic. We find *-iōn-* in the plural of denominative names of inhabitants and classes, as *zempljan-e* 'countrymen' from *zemlja* 'land', *graždan-e* 'citizens' for **gord-ian-e* from *gradū* 'city', *seljan-e* 'country folk' from *selo* 'cultivated land', *mir-jan-e* 'laici' from *mirū* 'world'. See I § 585, 3 p. 440.

§ 116. The Suffix *-ŷen-*. This appears in the forms *-ŷen-* *-ŷon-* (*-ŷēn-*) *-ŷōn-* and *-un-* *-uŷ-*, and appears to be derived from the *u-* and *uo-* stems, just as *-ien-* from those in *-i-* and *-io-*.

The meaning of the suffix cannot be reduced to any general definition. Amongst the substantives it forms are *nomina actionis*, which were used as infinitives in Aryan and Greek.

Indo-Germanic. Skr. *dy-un-* (e. g. instr. *dyun-a*) n. 'life', Gr. *ai-(F)ών* (*-ων-*) m. 'space of time, eternity' *ai-(F)έρ* (loc. sing.) 'always', common ground-form **ai-ŷen-* (cp. I § 611 p. 461): compare Lat. *ae-vo-m*, Goth. *ái-v-s* m. 'time, eternity' ground-form **ai-uo-* (cp. I § 612 p. 462, § 614 p. 464). Skr. *pī-van-* Gr. *πí-(F)ων* (*-ων-*) 'fat': compare **pī-ŷe-ro-* Skr. *pīva-rá-s* Gr. *πί-ρό-s* 'fat' Skr. *pī-vas-* n. Gr. *πίό-της* etc., see § 74 p. 182.

Skr. *pār-van-* n. 'knob, joint, pause, break', Gr. *ἀ-νειρων* (-ον) 'boundless' for **περ-φων*, *πείραίνω* 'I bring to an end' for **περ-φων-τω*, Skr. *pārvata-s* Gr. *πέργατα πείγατα* (see § 82 p. 249): beside these we have Gr. *ἄ-πειρος*. Skr. *agrādvān-* 'eating first', Gr. Hom. *ἔδ-φατ-* or *ἔδδατ-* n. 'food' (*ἔδατ-* is a wrong spelling, cp. I § 166 p. 147 on *δεῖδιμεν*). Skr. *grā-van-* m. 'soma-stone' O.Ir. *broo brō*, gen. *broon brōn*, 'millstone'.

Datives in *-men-ai* are used as infinitives (this appears to have been a modification of the original *-un-ai* *-un-ai* introduced in the proethnic period on the analogy of the loc. in *-men(-i)*; cp. *-men-ai* § 117). Skr. *dā-vān-e* 'to give', Gr. Cypr. *δο-φερ-αι* Att. *δοῦναι*. Avest. *vid-van-ōi* 'to know', Gr. *εἰδέναι* for **φειδ-φερ-αι* (cp. § 136 Remark 1).

Aryan. The original relations of ablaut are preserved most nearly in Skr. sing. nom. *maghā-vā* ('generous') acc. *-vān-am* loc. *-vān-i* instr. *maghōn-ā*, Avest. sing. nom. *aša-va* ('pure') acc. *-van-em* gen. *āsaon-ō*. In Sanskrit, levelling took place in two different directions. On the one hand the form with *-van-* spread into the weakest cases: e. g. *āthar-vā -vān-am -vān-i* produced *-vān-ā -vān-as* instead of **un-ā* etc. (cp. the form *apaurun-ē* dat. preserved in Avestic), a change which was supported by the parallelism of the *man-*stems (*āś-man-ā* etc.). And the *v* of forms like *ṛtā-vn-ā* (we should expect **ṛtāun-ā*) came from the other forms with *-van-* *-vān-* (cp. I § 160 p. 144), while such a form as *pt-vn-*, and (here also) the type of the *-man-*stems (*arya-mn-ā*) may have influenced the re-formation. On the other hand, in some neuter words (e. g. *dy-un-*) a new paradigm was formed by a confusion with *u-*stems which were parallel to them, (from which came e. g. the nom. acc. *dyu*, cp. Goth. *aju-ka-* in *ajuk-dūp-s* 'eternity'). An interesting survival of *-un-* on Indian ground appears also in *mīth-un-ā* 'paired' beside Avest. *mīp-wan-* n. 'pair'. Cp. the Author, *Morph. Unt.* II 187 ff.

Skr. *tāk-van-* beside *tak-vā* *tāk-u-* 'shooting on, quick'. *fbh-van-* beside *fbh-vā* *fbh-ū-* 'capable, aristic'. *fk-van-* beside *fk-vā* 'singing, praising'. *pād-van-* m. beside *pād-vā* m. 'way'. *ār-van-* 'runner' beside Avest. *aurva* 'quick' A.S. *ar-u* 'prompt,

ready'. *dhán-van* n. beside *dhán-u-* f. 'dune, sandy land'. Avest. *er'd-ican-* 'raiser, helper' beside *er'd-ica-* 'uplifted, raised up'.

Skr. *ádih-van-* m. Avest. *ad-ican-* m. 'way'. Skr. *yá-van-* 'going, traveller' Avest. *yaon-a-* m. 'path, way'. Skr. *pát-van-* 'flying', *śák-van-* 'able', *rá-van-* 'bestowing'. Avest. *is-van-* 'able', *der'z-van-* m. 'fetter'. Skr. *sná-van-* n. 'bond, sinew', *túg-van-* n. 'rapid stream', Avest. *karš-van-* n. (nom. acc. *karš-var'*) name of the seven divisions of the earth.

-t-van-: Skr. *kṛ-t-van-* 'effecting' Avest. *ker'-p-uan-* 'one who brings about', Skr. *sú-t-van-* 'pressing', *sa-jí-t-van* 'victorious'. These are based on *t*-stems like *-k-f-t-* 'effecting', see § 123.

Skr. *ṛtá-van-* 'holy, pious' Avest. *aša-van-* 'pure', Skr. *áthar-van-* Avest. *apra-van-* (*apaur-un-*) 'fire-priest', Skr. *dhitá-van-* 'rich in gifts', *amatī-ván-* 'suffering want', *samád-van-* 'eager for the fray'.

Infinitives. Skr. *dā-ván-ē* 'to give', Avest. *vid-van-ōi* 'to know', see above p. 363.

Armenian. *siun*, gen. *sean*, 'pillar' for early Armen. **sī-van-* or **sē-van-*: Gr. *στῦν* m. f. (*-ον-*) 'pillar' for **στῖ-φων*. *n*-cases were no doubt originally formed from *albeur*, gen. *alber*, 'spring' (I § 263 p. 214): cp. Gr. *φοῖτος φοῖτος* (p. 365).

Greek. *αἰ-(F)ών αἰ-(F)έν*, *πῖ-(F)ων*, *ἀπειρών* for **-περ-φων*. see p. 362 f.

κενε-(F)ών (*-ων-*) m. 'hollow space' from *κενε-φό-* 'empty' (§ 64 p. 135), with which we must certainly class the masculine names of places as *οἰνέων οἰνών* 'wine-bin', *παρθενέων παρθενών* 'maidens' apartment', *ἀνδρῶν* 'man's apartment', *ἵππῶν* 'horse stall', *λασιών* 'place with thick bushes' (*εὐ λάσια* 'thicket').

The form *-un-* is no doubt to be seen in *εὐθύναι* f. 'legal procedure, punishment' for **εὐθύν-ια*, *εὐθύνω* 'I guide straight' for **-υν-ιω*; cp. Avest. *ašaon-i* fem. of *aša-van-*. Cp. also Hom. *εὐθύν-τατα* 'in the straightest, truest way' beside *εὐν-ς*. See Osthoff, Forsch. auf dem Geb. der Idg. Nominalstamm-bildung II 24 ff., and the Author, Morph. Unt. II 190. 201 ff. 205 f.

The neuters show the same course of development as those belonging to the *-men-* and *-en-* stems (like *οὐθ-αρ -ατος* § 114

p. 350); but there appears to be no nom. acc. sing. in *-fa* = *-φα*. *πείρω-τα* for **περ-φα-τα* (: Skr. *pár-va-ta-s*) and *ἔδ-φα-τα* (*ἔδ-φαρ*), see above p. 363. *γοῖᾱρ* *γοῖᾱτος* 'well' with *-εᾱ-* for *-ηα-* (I § 611 p. 462) Hom. *γοῖᾱτα* (wrongly written *γοῖᾱτα*) for **γοη-φα-τα*: cp. Armen. *albeur*, see above p. 364. *στεῖαρ* *στεῖατος* 'congealed fat', poet. *στεῖαρ* i. e. *σιῖ-αρ*: Skr. *stha-vará-* 'standing, immovable'. Other examples of the kind are given by the Author, Morph. Unt. II 225, G. Meyer, Griech. Gramm.² p. 325.

Infinitives. *δο-φειν-αι* *δοῦναι*, *εἰδ-έν-αι*; see above, p. 363. This formation was very fertile in Ionic, Attic and Arcadian. *θεῖναι* 'to place' for **θε-φειν-αι*. *ἰ-έναι* 'to go'. *δε-δι-έναι* 'to fear'. *ἀλῆναι* 'to blow' for **ἄλ-η-φειναι*, *γνῶναι* 'to recognise' for **γνω-φειναι*. From the contracted forms was taken a termination *-ναι*, which usurped the place of *-μεν -μεναι*: thus *δῦναι*, *εἶναι* (*εἶ-μεν* for **ἔσ-μεν*), *φάναι*, *διδόναι*, *δεικνύναι*. Many scholars refer *φέρειν* to **φερε-φειν*, see § 114 p. 347.

Old Irish. *broo brō* 'millstone': Skr. *grā-van-*, see above p. 347.

Germanic. Goth. *spar-va* A.S. *spearwa* O.H.G. *sparo* m. 'sparrow', *✓ sper-* 'flutter to and fro'.

§ 117. The suffix *-men-*. This was used from the in the proethnic and later periods to form *nomina actionis*, which often varied between the meaning of the thing and the action (as Gr. *ῥεῦμα* 'a streaming' and 'that which streams'); more rarely to form *nomina agentis*. The *nomina actionis* were used in Aryan and Greek as infinitives. The gender varied between neuter and masculine; sometimes even in the same word, as Gr. *χεῖμα*: *χειμῶν*.

The root-syllable had generally the strong grade (the *e*-form in the *e*-series). Originally, no doubt, both this and the weak grade stood side by side in each paradigm (cp. Gr. *λειμῶν*: *λιμήν*, *ἄετ-μα*: *ἀντ-μήν*, O.Icel. *ljō-me*: Goth. *laúh-mun-i*), but a process of levelling ensued, generally in favour of the strong form.

There is difficulty in ascertaining what was the weak form of the suffix in the ground-forms of certain cases of the noun, as Skr. *várt-man-ā* *várt-man-as* (beside *ná-mn-ā* *aryo-mn-ā*).

Remark 1. From the analogy of Skr. *arc-in-ā* (*-ien-*) and Avest. *apaur-un-ē* (*-yen-*) — see § 115, 116 — we should expect **vert-mn-*, and therefore St. **vart-an-ā*. This is supported by Goth. *rund-ufn-i* f. 'wound' *vit-ubn-i* n. 'knowledge' (*-fn-* *-bn-* for *-mn-*, I § 215 p. 182) beside *laúh-mun-i* f. 'flash'. The original paradigm of the latter would have been nom. **laúh-ufn-i* gen. *laúh-mun-jōs*, as in Skr. **vart-an-ā* (*-mn-*) *vart-ma-bhiṣ* (*-m-*). See the Author, *Morph. Unt.* II 201, 209, 217 ff. We might therefore suppose that *vart-man-ā* was a re-formation in Aryan due to the analogy of the other cases, *vart-man-i* *vart-ma-bhiṣ* etc. But although it must be allowed that the weak stem had both these forms in derivatives, yet even in the proethnic period the post-consonantal form *-mn-* may have been displaced by *-men-*. There is at least a very strong probability that some such levelling process had taken place in proethnic Indo-Germanic in such infinitives as Skr. *vid-mán-ē* Gr. *ιδ-μεν-αι* (cp. also Lat. imper. *legi-mín-i* below). The form of the stem represented by Skr. *vart-man-ā* would then be *vért-men-*. I should give my judgement with greater confidence, if there were a satisfactory explanation, of the absence of *m* in Skr. *bhūná* *prēná* and the like (*Lanman*, *Noun-Inflection* p. 533).

Indo-Germanic. **kleu-men-* from *√ kleu-* 'hear': Avest. *srao-man-* n. Goth. *hliu-ma* m. 'hearing', cp. also Skr. *śrō-ma-ta-m* O.H.G. *hliu-mun-t* § 82 p. 249. Skr. *hō-man-* n. Gr. *χεῦ-μα* *χῦ-μα* *χύ-μα* n. 'gush'. Gr. *ρεῦ-μα* *ρύ-μα* n. O.Ir. *sruaim* n. 'stream' common ground-form **srey-men-*. Skr. *bhū-man-* n. 'existence, earth' *bhū-mán-* m. 'crowd, fulness', Gr. *πῦ-μα* n. 'growth', Lith. *bu-men-ė* (no doubt with *ū*) f. 'the present'. Skr. *hē-man* loc. 'in winter', Armen. *jiun*, gen. *jean* 'snow', Gr. *χεῖ-μα* 'storm' *χει-μῶν* (*-μων-*) m. 'stormy weather, winter'. Skr. *bhár-man-* n. 'support, fostering, care', Gr. *πέφ-μα* n. 'fruit of the womb', O.C.Sl. *brě-mę* n. 'burden'. Skr. *tár-man-* n. 'top of the sacrificial post', Gr. *τέφ-μα* n. 'goal, end' *τέφ-μων* (*-ων-*) m. 'boundary', Lat. *ter-men* *ter-mō* (*-mōn-*). Skr. *várt-man-* n. 'road', O.C.Sl. *vrě-mę* n. 'time' for **vert-mę*. **men-men-* 'mind, spirit, thought': Skr. *mán-man-* n., Gr. *ῥαον-μέμνων* *ἄγα-μέμνων* for **μεν-μων* (De Saussure, *Mém. de la Soc. de lingu.* IV 432). Skr. *vás-man-* n. 'covering' Gr. *εἶ-μα* n. 'garment, covering' *εὖ-εἶμων* 'well clothed'. Skr. *ád-man* n. 'food', Gr. *ἔδ-μεν-αι* dat. inf. 'to eat', Lith. pl. *ėd-men-ys* (stem *ėd-men-i-*) m. 'mouth, chaps'. Skr.

dhā-man- n. 'statute, action, seat, dwelling', Gr. ἀνά-θημα n. 'erection, something set up, offering' ἐν-θήμων 'keeping something in good order' θη-μών (-μων-) m. 'heap' θέ-μα 'something set up, deposit, pledge', √ *dhē-*. Skr. *dā-man-* n. 'gift' *dā-mán-* m. 'gift, giver', Gr. δό-μα n. 'gift' inf. δό-μεναι, √ *dō-*. Skr. *sthā-man-* n. 'standing-place, strength', Gr. ἐπί-σθημα n. 'what is set up upon something else' στῆ-μων (-μων-) 'warp in the upright loom', Lat. *stā-men* n., Goth. *stō-ma* m. 'constituent part, element', Lith. *stō-mū* m. 'stature, height of body', √ *sta-*. Skr. *ás-man-* m. 'stone, heaven' Gr. ἄξ-μων 'anvil, thunderbolt'. Skr. *áj-man-* n. 'road, train', Lat. *ágmen* n. for **ag-men* (the vowel owes its length to the following *-gm-*) and *ex-āmen* n. for **ag-men* (I § 506 p. 371¹). Skr. *ōj-man-* m. 'strength', Lat. *aug-men* n., Lith. *aug-mū* m. 'excrecence upon bodies or trees'. Skr. *sī-mán-* m. 'parting of the hair, crown of the head' f. 'boundary, mark' (as to the fem. gender see Rem. 2 below), O.Sax. *sī-mo* m. 'bond, cord, rope', cp. also Gr. ἰ-μαν-τ- (ῖ) 'strap' ἰ-μων-ία 'well-rope' (§ 82 Rem. p. 249 f.); Gr. αἰμασιᾶ 'enclosing wall, hedge' seems to be derived from a stem **sai-men-*. Skr. *syā-man-* n. 'bond, stripe, row' Gr. ὑ-μήν (-εν-) m. 'hide, sinew', κασσίματα n. pl. 'patchwork, soles; plots' (prep. κάτ), Lat. *as-sūmen-tu-m* 'patch sewn on'. Skr. *nā-ma* n. Armen. *anun* Gr. ὄνο-μα n. Lat. *nō-men* n. O.Ir. *ain-m* n. Goth. *na-mō* n. Pruss. *e-mn-a-* O.C.Sl. *i-mę* n. (I § 219 Rem. 2 p. 187 f.) 'name'. Gr. γνῶ-μα n. 'token' γνῶ-μων (-μων-) 'one who knows or shows, sundial, measuring-rod', Lat. *agnōmen* n. for **ad-gnō-men* (connected by popular etymology with *nōmen*), O.C.Sl. *zna-mę* n. 'token'.

Skr. *jāni-man-* n. 'birth' Lat. *geni-men* (late) beside Skr. *jān-man-*. Of the same sort are Gr. τελα-μών 'shoulder-belt', O.Ir. *men-me* 'mind' and other examples. See I § 110 p. 104.

Datives in *-men-ai* used as infinitives (cp. *-yen-ai* § 116 p. 363). Skr. *vid-mánē* 'to learn, experience' (side by side with

1) In the English translation, l. 6. of this paragraph, instead of 'before originally long vowels', read 'after etc.'.

which we also find other cases of *vid-mán-*), Gr. ἰδ-μεναι 'to know'. Skr. *dā-manē* 'to give' (cp. p. 367), Gr. δό-μεναι 'to give'. Lat. imper. *legimin-ī*, in form identical with Gr. λεγέμεναι (see below).

-men- seems further to have been used even in the parent language as a secondary suffix: Skr. *arya-mán-* m. 'comrade, friend', Mid.Ir. *Airem*, gen. *Areman Eremon*, beside Skr. *aryá-* 'devoted, attached' O.Ir. *aire* (gen. *airech*) 'princeps, primus'.

-men- and *-mo-*, are often interchanged from the proethnic period onwards (see § 112 p. 340 f.); and this led to a certain confusion, which can be sometimes traced in the separate languages, between the *-men-* forms and the substantives in *-mo-* which have the *o*-grade in the root-syllable (see § 72 p. 170). Gr. οἶ-μα n. 'assault' instead of *εἶ-μα (Skr. *é-man-* n. 'course') through the influence of οἶ-μος οἶ-μη. O.H.G. *lei-mo* m. 'loam' instead of *lī-mo (Gr. λει-μῶν) through the influence of the form *lei-m* m.

In all the Indo-Germanic languages *-men-* was a fertile suffix, most of all in Aryan, Greek, and Latin.

Aryan. Skr. *tōk-man-* 'young blade of corn' Avest. *taor-man-* n. 'bud, family, offspring'. Skr. *hē-mán-* m. 'impulse' Avest. *zaç-man-* n. 'zeal'. Skr. *dhā-man-* n. 'statute, action, seat, dwelling' Avest. *dā-man-* i. e. *dā-man-* n. 'creation, creature' (I § 200 p. 168): Gr. ἀνά-θημα etc., see above p. 367. Skr. *āś-man-* Avest. O.Pers. *as-man-* m. 'stone, heaven': Gr. ἄκ-μωρ 'anvil, thunderbolt'. Skr. *nā-man-* n. Avest. *na-man-* (*ā*) n. O.Pers. *nā-man-* n. 'name': Armen. *anun* etc., see above p. 367.

In secondary use: Skr. *arya-mán-* m. 'comrade, friend' Avest. *airya-man-* 'obedient' beside Skr. *aryá-*, see above.

Sanskrit. *dhār-man-* n. 'support' *dhar-mán* m. 'bearer', *brāh-man-* n. 'devotion' *brah-mán-* m. 'one who prays', *svād-man-* n. 'sweetness, loveliness'; *vāri-man* n. *vari-mán-* m. 'extent'. *ōd-man-* n. 'undulation', *ē-man-* n. 'course', *vārṣ-man-* n. 'height, surface', *sād-man-* n. 'seat, abode', *sā-man-* n. 'hymn', *trā-man-* n. 'protection', *yā-man-* n. 'course'; *jāni-man-* n. 'birth', *bhāri-man-* n. 'a carrying'. *hāvī-man-* n. 'a calling upon'. *ūṣ-*

-mán- *uś-man-* m. 'heat', *ō-mán-* m. 'favour, help', *jē-mán-* m. 'superiority'; *prathi-mán-* m. 'breadth'. *dā-mán-* m. 'giver', *sō-mán-* m. 'presser, preparer of the soma'. Forms like *prathi-mán-* were popularly connected with the parallel adjectives such as *pythú-* *práthīyas-*, and hence *-i-man-* became a secondary suffix, as in *dradh-imán-* m. 'firmness' from *dr̥dhá-* 'firm' compar. *drádhīyas-*, *dhāmṛ-imán-* m. 'dark colour, gloom' from *dhūmrá-* 'dark'.

Avestic. *a-piśman-* 'without art, without skill'. *maēs-man-* n. 'urine', *dae-man-* n. 'eye', *pae-man-* n. 'milk, mother's milk', *dūn-man-* n. 'cloud, vapour' no doubt = *dū-man-* (cp. *dā-man* above), beside Skr. *dhū-mā-s* 'smoke', *stao-man-* n. 'song of praise, laudation', *bar's-man-* n. 'bundle of consecrated twigs for offering', *caś-man-* n. 'eye'. *ras-man-* m. 'army in line, line of battle': Gr. *ὄρεγ-μα* n. 'a stretching out, stretch'. *urvās-man-* 'one who makes others glad, joy-giver'.

Infinitival datives. Skr. *vid-mānē*, *dā-manē*, see p. 367 f. above. Skr. *dhār-manē* 'to support', *trā-manē* 'to protect'. Avest. *stao-mainē* 'to praise', *xšnā-mainē* 'to content'. In Avestic the locative also appears as an infinitive, e. g. *caś-maṇ caś-mēnōg* 'to behold' beside dat. *caś-mainē*.

Remark 2. The nominative termination *-mā* (m. and n.) appears sometimes to have led to a transference to the feminine *ā*-declension; this process may have been aided by the close connexion between the *-men-* and *-mo-*stems, which dates from before the Aryan period. Thus e. g. Skr. *sī-mā-* = *sī-mán-* 'boundary' (*sī-mā-* in its turn influenced *sī-mán-* so far as to give it the fem. gender), *dā-mā-* beside *dā-man-* n. 'bond' (also f., according to the grammarians; the change of gender came about in the same way as in *sī-mán-* f.), O.Pers. *tau-mā-* 'family' = Avest. *taox-man-*. Cp. § 114 Rem. 1 p. 348, § 122 Rem. p. 383.

Armenian. *jiun* 'snow', *anun* 'name', see above, p. 366 f.; for the phonetic changes see I § 202 p. 169. *gel-mn*, gen. *gel-man*, 'wool, fleece': to be compared either with Skr. *vár-man-* 'defensive armour' Gr. *ἔρ-ιο-ν* 'wool' (✓ *uer-*) or with Lat. *vellus*, Goth. *vulla* 'wool' (✓ *uel-*). *marmin* (*-min-* for *-men-*, I § 63 p. 50), gen. *mar-mn-o-y*, 'body, flesh' (which is extended by the suffix *-o-*): Skr. *már-man-* n. 'membrum, joint, open part of the body which is especially exposed to mortal wounds'.

Greek. The history of the neuter forms is the same as in the case of the *-en-* and *-men-* stems; see § 114 p. 350.

χεῦ-μα χῦ-μα χν-μα, χεῖ-μα χμ-μῶν, τέρ-μα, τέρ-μα τέρ-μων and others; see above, p. 366 f.

πνεῦ-μα n. 'breath', *πνεύ-μων (-μων-)* m. 'lung'. *ἄετ-μα* n. (*φλόξ*), beside *ἀετμό-ν πνεῦμα* Hesych.), *αὐτ-μήν (-μεν-)* m. 'breath, exhalation, vapour' (*ἄετ-μα?* cp. p. 372). *ῥ-μα* n. 'missile', *ῥ-μων (-μων-)* m. 'thrower, slinger': Lat. *sē-men* n. O.H.G. *sā-mo* m. O.C.Sl. *sě-mě* n. 'seed', √ *sē-*. *μνῆ-μα* n. 'memorial'. *μνή-μων (-μων-)* 'mindful'. *νόη-μα* n. 'thought', *νοή-μων (-μων-)* 'thoughtful'.

ἕευγ-μα n. 'bond, bridge of boats': Lat. *jūmentu-m* for **jūg-men-to-*, common ground-form **jeug-men-*. *δεῖ-μα* 'fear'. *λεῖμμα* for **λειπ-μα* 'remnant'. *κλί-μα κλί-μα* 'inclination'. *μίγ-μα* 'mixture'. *δέρ-μα* 'skin torn off, hide': Skr. *dar-mān-* m. 'shatterer'. *ῥ-μα* 'ear-ring'. *στροῦ-μα* 'something strown, bed, covering': Lat. *strā-men* n., common ground-form **stj-men*; cp. Skr. *stārī-man-* n. 'a spreading out, strewing abroad' *stari-mān-* m. 'bed'. *πέλ-μα* 'sole of the foot': cp. A.S. *fil-men* 'membrana' O.Fris. *fil-men-e* f. 'skin'. *φλέγ-μα* 'brand'. *γέννα* f. 'race, family' probably was neuter originally, and stands for **γεν-μα*: Skr. *jān-man-* n. *πείσμα* 'cable, rope' for **περσμα* from √ *bhēndh-* 'bind'; as to σ for θ see p. 372: cp. Lat. *of-fendi-mentu-m*. *βῆ-μα* 'step, grade, platform': Skr. *vt-gāman-* n. 'step', common ground-form **gṇ-men-*, √ *gem-*. *πέμμα* 'pastry' for **πεπ-μα*. *ὑπό-δημα* 'something fastened beneath sole' *δέ-μα δέ-σμα* 'bond': Skr. *dā-man-* n. 'bond'. *αἷ-μα* 'blood', beside O.H.G. *sei-m* m. 'virgin honey'. *οὖ-μα* 'swell of the sea'. *ὄμμα* 'eye, visage' for **ὄπ-μα*. *ῥά-μα* (Dor. form) 'stream', √ *snā-*. *βλή-μα* 'missile, shot'. *ῥῆ-μα* 'utterance' for **φρῥ-μα*. *σά-μα σῆ-μα* 'token', to be compared no doubt with Skr. *dhyā-man-* m. 'measure' n. 'thought', beside *dhyā-* 'think of' *dhī-* 'appear, resemble, observe, think'. Dor. *παῖ-μα* 'that of which one has the disposal, over which one has power, possession', for **κῡᾱ-men-*, compared with El. *ἐμ-πίω* 'bring to effect, accom-

plish' and with *κῦ-ρος* (cp. *πάμωχος* 'ὁ κύριος Hesych.)¹). *σχῆ-μα* 'demeanour, form'. *ὄρα-μα* 'sight'. *ὀρυη-μα* 'solicitude'. *μίσθω-μα* 'stipulated payment'.

The nom. acc. sing. neut. of one or two *-men-*stems ends in *ο*, as in some of the neuter stems in *-en-* and *-men-*: *ἡμαρ*, gen. *ἡματος*, 'day', *μῦμαρ* *μῶμαρ* 'blame', *λῦμαρ* beside *λεῦμα* 'pollution', *τέμνωρ* and *τέμνωρ* 'proof' (*-μωρ* for *-μῆρ*, cp. *ἔδωρ* I § 306 p. 243). Cp. § 118.

κενθ-μῶν (*-μων-*) m. 'hiding-place'. *πυθ-μήν* (*-μεν-*) m. 'depth, ground'. *λει-μῶν* (*-μων-*) m. 'damp place' and *λι-μήν* (*-μεν-*) m. 'harbour'. *ἰδ-μων* (*-μον-*) 'having knowledge of' (*ἰδο-σύνη*). *ἐπι-λῆσμων* (*-μων-*) 'forgetful' (*σ* instead of *θ*, p. 372). *ποι-μήν* (*-μεν-*) m. 'herdsman': Lith. *pẽ-mũ* m. 'herd-boy'. *τλή-μων* (*-μον-*) 'stead fast, enduring'. *ἀλή-μων* (*-μον-*) 'wandering about' (*ἀλᾶσθαι*). *ἐλεή-μων* (*-μον-*) 'pitiful'. *τελα-μῶν* (*-μων-*) m. 'shoulder-belt, baldric' properly 'bearer', *✓ tel-*. *τερά-μων* (*-μον-*) 'that becomes soft by boiling'. *ἡγε-μῶν* (*-μον-*) m. 'guide'. *κηδε-μῶν* (*-μον-*) m. 'one who cares for' a person. *-μῶν* acquired the character of a secondary suffix, just as Skr. *-i-mān-*: *ἀκρεμῶν* (*-μον-*) m. 'end of a branch, top' from *ἀκρος*, *δαιτυ-μῶν* (*-μον-*) m. 'he who sits at meat, guest' from *δαιτύ-ς*.

The dative, in *-μεν-αι*, and the locative, in *-μεν*, served as infinitives. *-μεναι* occurs in Ionic (epic) and Lesbian. *ἰδ-μεναι*, *δό-μεναι*; see above, p. 367 f. *ἔδ-μεν-αι* 'to eat' (Skr. *ád-man-*, p. 366), *θέ-μεναι* 'to place' (*-θημα θέ-μα*, p. 367), *ἀή-μεναι* 'to blow', *βή-μεναι* 'to go' (*βῆ-μα*, p. 370), *δῖ-μεναι* 'to press in, enter' (*ἔκ-δῖμα* 'garment taken off'), *βλή-μεναι* 'to strike' (*βλῆ-μα*, p. 370), *δαή-μεναι* 'to be versed' (*δαή-μων* 'versed'). On the model of these were formed: *φανή-μεναι* *τετλά-μεναι*, *ζευγνύ-μεναι*, *ἀειδέ-μεναι*, *εἰπέ-μεναι* *ᾄξε-μεναι*. *-μεν* is found in Ionic (epic), Doric, N.W.Greek, Elean, Thessalian, and Boeotian. *ἰδ-μεν*, *δό-μεν*, *θέ-μεν*, *ἔ-μεν*, *ἔμ-μεν* (*εἴμιν ἤμεν*), *τετλά-μεν*, *ὀρνί-μεν*, *γερέ-μεν*, *εἰπέ-μεν*, *ᾄξε-μεν*.

1) The nearest cognates of *πᾶμα* are collected by J. Baunack in his Stud. I 73 f.

Corresponding to *-τ-μο -θ-μο- -σ-μο-* (§ 72, 3 p. 173) we find *-τ-μεν- -θ-μεν- -σ-μεν-*. *-τ-μεν-* occurs in *λαῖ-τμα* 'gulf of the sea', no doubt to be compared with *λαι-μός* 'throat, gullet', and perhaps in *ἄετμα ἀντηγήν*. *-θ-μεν-*: *ἵ-θμα* 'course'. *-σ-μεν-*: *πλάσμα* 'image, figure' from *πλάσσω*, *κλώσμα* 'something spun' from *κλώω*, *πείσμα* 'cable' for **περθ-μα* (*σ* had not displaced *θ* in the earliest period of Greek, see I § 204 Rem. 2 p. 171), *ἐπι-λῆσμων* 'forgetful' from *λήθω*, *ἔρεισμα* 'support' from *ἐρείδω*, *σχίσμα* 'split' from *σχίζω*, and the neuter forms in *-ισμα* and *-υσμα* compared with derivative verbs in *-ίζω -άζω*, as *νόμισμα* 'usage, institution, from *νομίζω*, *ἀσπασμα* 'caress' from *ἀσπάζομαι*; also *ἄρμσμα* 'joined work' from *ἀρμόζω*.

Italic. The neuter forms were often extended by *-to-*; see § 82 p. 249 ff.

Lat. *nō-men* n., Umbr. *nome* n. 'nomen' *nomner* 'nominis': Skr. *nd-man-* n. etc.; see p. 367 above. Lat. *prae-dicamentu-m*, Umbr. *tikamne* 'dicatione, invocatione'. Lat. *testā-mentu-m*, Osc. *trīstaamentud* abl. 'testamento'. Lat. *Sē-mō (-mōn-)* 'seed-god', fem. *Sē-mōn-ia*, Pelign. *Semunu* 'Semonum', beside Lat. *sē-men* n. Umbr. *armune* dat. 'alimoni'.

Lat. *nū-men*, n.: Gr. *νεῦ-μα* 'nod'; *lū-men* for **lūc-men*, later **lāgmen* (I § 500 p. 367, § 506 p. 371¹), or for **lūc-s-men* (cp. *illastri-s* and *lūna* I § 503 p. 369): Goth. *laith-mun-i* f. 'flash' O.Sax. *lio-mo* O.Icel. *ljō-me* m. 'brightness, light, gleam': the *ū* in *nū-men* *lū-men* may be either Idg. *ū* or Idg. *eu*. *cri-men*: Gr. *κρί-μα* *κρί-μα* 'decision, sentence'. *ger-men*. *sarmen* for **sarp-men*, *sar-mentu-m*. *cul-men*. *sēg-men* for **sec-men*, *sēg-mentu-m*. *tēgmen* *tēgmentu-m*. *āgmen*: Skr. *āj-man-* etc., see above, p. 367. *caementu-m* for **caed-mentu-m*. *nē-men*: Gr. *νή-μα* 'something spun, yarn', √ *snē-*. *com-plēmentu-m*: cp. Gr. *πλήσμα* 'filling, what fills'. *flā-men* *flā-mentu-m*. *certā-men*. *mōlī-men* *mōlī-mentu-m*. *volū-men*, *statā-men*, hence were formed *leg-ūmen* *leg-ūmentu-m*, *alb-ūmen* and other similar derivatives.

1) See footnote to p. 367 above.

regi-men *regimentu-m*. *tegi-men* beside *tēgmen*. *of-fendi-mentu-m*. *monu-mentu-m*. *colu-men* (*columna*) beside *cul-men*.

Masculine forms are rarer. *ter-mō* (*-mōn-*) beside *ter-men* n.: (Gr. *τέρ-μων* etc., see above p. 366. *ser-mō* (*-mōn-*). *pul-mō* (*-mōn-*).

The dat. sing. in *-min-ī* was used in Latin as the 2. pl. imp. med.-pass., e. g. *legiminī* (= Gr. *λεγιμένοι*), *sequiminī*. The restriction to the plural, and to the medio-passive meaning was caused by the indicative *legiminī* = Gr. *λεγόμενοι* and = *λεγόμενοι*. See § 71 p. 165.

Old Irish. Neuters. *sruaim*, *ainm*; see above, p. 366 f. *deihn* 'noise'. *cúirm* 'beer'. *gairm* 'call, cry'. *druim* 'back' for **dros-men*, compared with Lat. *dorsu-m*. *cēimm* *cēim* 'stepping, step', beside *cingim* 'I step', *lēimm* *lēim* 'spring' beside *lingim* 'I spring', *grēimm* *grēim* 'progressus' beside *in-grennim* 'I pursue' (*grend-*), see I § 523 p. 380. *bēim* 'striking, blow' beside *benim* 'I strike': did this come regularly from **ben-men-* or was it influenced by the form of these other nouns? With *-a-men-*: *feid-m* 'strain', *fo-naidm* 'bond, compact'.

Remark 3. The origin of *un* in forms like nom. pl. *an-mann*, dat. pl. *an-mannaib*, is still quite obscure. The latest discussion of this difficult question is by Stokes (Bezzenberger's Beitr. XI 93) and Windisch (Über die Verbalformen mit dem Character R p. 40 f.).

men-me m. (gen. *men-man*) 'mens' for **men-a-men-* (cp. Skr. *mán-man-* n. 'mind, thought'). The nom. in **-men-s* was a re-formation like Lat. *sanguis* Gr. *δαλφίς*, for **δαλφίς*, cp. also O.Ir. *āru*, § 114 p. 352, § 115 p. 360.

Masculine and Feminine forms with pr. Celt. **-mō* in the nom. sing. (cp. Gall. *casa-mo*, *Sego-mo*), gen. Ir. *-mon* *-man* dat. *-main*. The masculine forms appear to be all denominatives: *Aire-m*: Skr. *arya-mán-* m., see above p. 368, *orbe-m* 'heir' from *orbe* n. (which represents a ground-form **orbh-ij-o-m*) 'inheritance', *flaithe-m* 'ruler' from *flaith* 'rule', *dūle-m* 'creator' from *dūil* 'element', *brithem* 'judge' from *breth* 'sentence', *olla-m*, gen. *olla-man*, 'princeps poetarum' no doubt connected with *oll* 'great, mighty'. *tala-m* (gen. *talman*), f. 'earth' no doubt for **tā-mō*, √ *tel-*.

anim f. 'soul' (dat. *an-min*) may have been originally a *-mā*-stem (cp. Lat. *anima-*) and have been transferred to this declension through the influence of *menme*.

Germanic. The old variation between neuter and masculine was almost entirely obliterated in favour of the masculine. The neuter survives only in Gothic and Norse in a few examples: Goth. *na-mō* n. 'name' (O.Icel. *na-fn* n. by a transference to the *o*-declension, O.H.G. *na-mo* m.): Skr. *nd-man-* n. etc., see p. 367 above; O.Icel. *sī-ma* beside *sī-me* m. 'rope' (O.Sax. *sī-mo* m.): Skr. *sī-mán-* etc., see p. 367 above.

Masculine. Goth. *hliu-ma* 'hearing' O.H.G. *hliu-mun-t* 'call', Goth. *stō-ma* 'constituent part', see p. 366 above. O.H.G. *sā-mo* 'seed', see p. 370 above. O.Sax. *lio-mo* 'brightness', see p. 372 above. Goth. *hiuh-ma* 'heap'. Goth. *skei-ma* 'light', O.H.G. *scī-mo* 'brightness, sheen'. O.H.G. *kī-mo* 'the bursting bud'. O.H.G. *glizemo* 'brightness', Goth. *glit-mun-jan* 'to gleam'. Goth. *milh-ma* 'cloud'. Goth. *ah-ma* 'spirit'. Goth. *blō-ma* O.H.G. *bluo-mo* 'bloom'. This masculine suffix was fertile only in Old Frisian and there only to a limited extent; it became denominative as in Sanskrit etc., e. g. *werth-ma* 'taxation' from *werth* 'value'.

-s-men-, like *-s-tro-* *-s-lo-* etc. (see § 61 p. 117). O.H.G. *rosamo* 'aerugo' for **rots-mō* beside O.Sax. *rotōn* 'to rust', cp. O.H.G. *rotamo* 'redness'. O.H.G. *dihsamo* 'prosperity' *fram-dehsmo* 'increasing prosperity', beside *dīhan* 'to wax great'. O.Sax. *blicsmo* 'flash' beside *blīcan* 'to gleam'. The *s* came from forms like O.H.G. *wahs-amo* *was-mo* 'growth' (*wahs-an* 'to wax') and O.Sax. *brōsmo* 'soft part of bread, crumb' (A.S. *brȳs-an* 'to break in pieces').

-t-men-, like *-t-mo-* § 72 p. 175 f. O.H.G. *wi-damo* 'price of the bride, dowry' from *ūt-* 'bind'; A.S. *blōstma* 'bloom', cp. Mid.H.G. *bluos-t* beside *bluo-t* 'bloom'.

The feminine *-mōn-* is rare and certainly a late formation; e. g. O.H.G. *bluo-ma* beside the masc. *bluo-mo*.

Balto-Slavonic. Lith. *ak-mū* m. O.C.Sl. *ka-my* m. 'stone'. Lith. *szel-mū* m. 'gable' O.C.Sl. *slě-mę* n. 'beam'; cp. Lith. *szal-ma*

'long beam'. Lith. *sė-men-s* pl. m. 'seed', especially linseed, O.C.Sl. *sě-me* n. 'seed': Gr. *ῥ-μα* etc., see p. 370 above.

In Lithuanian only masculines appear (nom. *-mũ* gen. *-men-s* etc.); the neuter has died out in the same way as in other classes of stems. *sto-mũ* 'stature, tallness', *aug-mũ* 'exerescence', see p. 367 above. *pė-mũ* 'herd-boy', see p. 371 above. *rau-mũ* 'flesh of the muscles', no doubt to be compared with O.H.G. *riu-mo* 'strap, band', common ground-form **rey-men-* (cp. Osthoff, Morph. Unt. IV 142). *rė-mũ* 'heart-burn'. *lė-mũ* 'trunk, stature'. *szer-men-s* pl. 'funeral meal' (no doubt from *szér-ti* 'to feed'). *žel-mũ* 'sprout, plant'. *tesz-mũ* 'udder'. *ász-men-s* pl. 'cutting edge'.

O.C.Sl. *brě-me* n. 'burden', *vrě-me* 'time', *i-me* 'name', *zna-me* 'token'; see above, p. . *pis-me* 'letter', ✓ *pejk-*. *pleme*, 'stem, family' no doubt for **pled-me*, compare *plodũ* 'fruit'. *ra-me* beside *ra-mo* 'shoulder' (cp. I § 306 p. 241). *vyme* 'udder' for **vyd-me* (I § 547 p. 400 f., § 666 p. 526). *cisme* 'number' for **čit-smę*, cp. *číslo* § 76 p. 211.

plamy m. 'flame' for **pol-my*, beside *pol-ěti* 'to burn, uri' *plu-naŕi se* 'to blaze out'. In a few other examples the only form of the nom. sing. which occurs is one which shows a transference to the *i*-declension; e. g. *pra-men-ĩ* 'thread' (gen. *pramen-e*, like *plamen-e*); in others we have both forms, *plamen-ĩ* beside *plamy*, *kamen-ĩ* beside *kamy*.

Remark 4. The original weak form of this suffix perhaps appears in such examples as *kaminĭja kamni*, which Leskien has collected in his Handb.² § 43 p. 58.

VI. Suffixes in *-r*.

§ 118. Nom. acc. neut. in *-r* (*-ŕ -ř*). We may fairly class among the elements from which noun stems were formed the *-r* of neuter words like Skr. *údhār* Gr. *οἰδάρ* Lat. *über* (O.H.G. *atar* m., but there can be no doubt that it was originally neuter) 'udder' — for further examples see § 114 pp. 347, 350, § 116 p. 364, § 117 p. 371; etymologically it must be connected in most cases with the suffix *-ro-*, in some words perhaps with *-er-* and the comparative suffix *-ero-*. See

§ 74 p. 180. How these forms in *-r* came to be included in the paradigm of *n*-stems (e. g. Skr. *ûdhar* gen. abl. *ûdh-n-as* loc. *ûdh-an-i*) is a question we cannot answer. The difference in meaning, which (to judge from the variation of the stem) must once have existed between the nom. acc. and the other cases, had probably disappeared before the dissolution of the proethnic community. With this we may naturally compare the loss of the distinction in meaning, which once existed over and above the difference in gender, between the stems of the masc. Skr. *pî-van-* Gr. *πῖ-(f)ov-* and the fem. Skr. *pî-va-r-i* Gr. *πῖ-(f)ιρα* f. 'fat'.

In Aryan this nom. acc. form was also used for the pl., just as (e. g.) Skr. *nâma* 'ὄνομα' and *purû* 'πολύ' were plural as well as singular; it also served as loc. sing., ep. loc. *kârman*. This plurality of function may be regarded as proethnic. In Avestic however we have a still freer use; the forms in *-ar* appear indifferently for cases of the most widely different meaning; e. g. *karšvar* 'division of the earth' is used for the gen. sing., *dasvar* 'strength, health' for the dat. sing., as well as for the nominative.

In several branches of language the form in *-r* was made the basis of a new paradigm, though the change never affected any very large number of words. Thus in Avestic we have dat. sing. *zafr-ē* nom. pl. *zafr-a* gen. pl. *-zafr-am* from *zafar* 'throat, mouth' beside gen. sing. *zafan-ō*; instr. pl. *baēvar'-biš* from *baēvar* 'myriad', Gr. *ἔαρ* 'blood' gen. *ἔαρ-ος* beside Skr. *asân-* n. 'blood'; Lat. *uber* gen. *uber-is* beside Skr. *ûdhan-*; *femur* gen. *femor-is* beside *femin-is*, *jecur* gen. *jecor-is* and *jecin-or-is* beside Skr. *yak-ân*; O.H.G. *wazzar* gen. *wazzares* beside Goth. *vatō* gen. *vatins* 'water'.

§ 119. The Suffixes *-er-* and *-ter-*¹⁾. The two forms of the suffix are found side by side without difference of meaning,

1) The Author, Die Nomina auf *-ar-* und *-tar-*, Curtius' Studien IX 361 ff., D'Ooge, On the use of the suffixes *-τερ* *-τορ* *-τηρ* *-τα* in Homer, Leipzig 1873. E. Schäffer, Über den Gebrauch der Derivativa auf *tor* und *trix*, Prenzlau 1859. 1860.

like the comparative suffixes *-ero-* and *-tero-* (§ 75 p. 188 ff.). It is probable that the form *-ter-* arose through the addition of *-er* to a stem formed with a *t*-suffix.

The nouns in which these suffixes occur are, with comparatively few exceptions, *nomina agentis* or names of kindred. The former class has *-ter-* throughout, e. g. **jeuq-ter-* 'harnesser', the latter both *-er-* and *-ter-*, e. g. **daiy-er-* 'levir' and **pa-ter-* 'father'. *-er-* is also found in a few substantives which belong to neither of the two groups, as **u-er-* 'man' and **us-er-* 'dawn'.

The *nomina agentis* are masculine, and even in the proethnic period feminines were formed for them by means of *-ī-* *-iē-*, e. g. Skr. *jāni-tr-ī* Gr. *γενέ-τειρα* Lat. *gene-tr-ī-x* 'she that produces, mother', see § 110 p. 336. The names of kindred were masculine or feminine according to the sex they denoted, as **pa-te-r* 'father', **mā-ter-* 'mother'. It was not till later periods that special grammatical signs were added to mark this, and then only in a few words; e. g. Lat. *jani-tr-ī-c-ēs* beside Skr. *yā-tar-* 'husband's brother's wife' Gr. *εἰρά-τερος* 'women married to brothers'.

§ 120. The forms assumed by the suffix *-(t)er-* in its different grades were very numerous both in the proethnic and later periods. The so-called strong cases had *-(t)er-* *-(t)or-* *-(t)ēr-* *-(t)ōr-*, the weak cases *-(t)r-* *-(t)ṛ-*.

First as regards the weak cases: *-(t)r-* appears before the case endings which begin in a sonant, e. g. Skr. dat. sing. *pi-tr-ē* *dā-tr-ē*, *(t)ṛ-* before those which begin in a consonant, e. g. loc. pl. *pi-tṛ-ṣu* *dā-tṛ-ṣu*. The same forms of the suffix were originally regular in derivatives; e. g. Skr. *datr-ī-ṣu* loc. pl. fem. beside *dā-tar-* *dā-tūr-* 'dator', *bhrātṛ-tvā-m* 'brotherhood' beside *bhrā-tar-* 'brother'. In several languages the weak forms of the suffix were soon driven out by the strong in the declension of the *-(t)er-* stems, especially in *nomina agentis*; and all that remain to show that weak forms had ever existed in the case-system are derivatives which contain the weak stem. Compare e. g. Gr. *λησ-τορ-ίς* 'female robber' *λησ-τορ-ικό-ς* 'inclined to robbery' beside *λησ-τωρ* (*-τορ-*) and *λησ-τηρ* (*-τηρ-*) 'robber', Lat. *dā-tr-ī-x*

beside *da-tor* (*-tōr-*), *mole-tr-ina* beside *moli-tor* (*-tōr-*), Umbr. *uh-tr-etie* 'auctoritate' beside *uh-tur* 'auctor', Lith. *dukr-ėlė* 'little daughter', *pó-dukr-a pó-dukr-ė* 'step-daughter' (Pruss. *po-ducr-e*) beside *duk-tė* (*-ter-*) 'daughter', Pruss. *svestr-o* O.C.Sl. *sestr-a* beside Lith. *ses-ė* (*-er-*) 'sister'.

With regard to the original distribution of the strong forms of the suffix the following points may be considered certain.

1. The nom. sing. ended sometimes in *-(t)ē(r)*, sometimes in *-(t)ō(r)*, cp. on the one hand Gr. *πα-τήρ δο-τήρ* Lat. *pa-ter* (I § 655, 4 p. 503), O.Ir. *a-thir* (I § 657, 6 p. 509), O.Icel. *fa-ðer fa-ðir*, Lith. *duk-tė* O.C.Sl. *dŭsti* (Skr. *pi-tā da-tā*) and on the other Gr. *φο-τωρ μητρο-πάτωρ δώ-τωρ*, Lat. *sor-or da-tor* (I § 655, 4 p. 503), O.Ir. *siur* for *sues-ōr* (I § 657, 6 p. 509), Lith. *ses-ė* (Skr. *bhrā-tā dā-tā*).

2. A certain number of these stems had in the acc. sing. and nom. du. pl. *-(t)er-*, cp. Gr. *πα-τέρ-α*, O.H.G. *fa-ter*, Lith. *dūk-ter-i* (Skr. *pi-tār-am*).

3. There was a loc. sing. in *(-er) -eri*, cp. Gr. *πα-τέρ-ι* (Skr. *pi-tār-i dā-tār-i*).

Further conclusions which I think probable are as follows. All the *-(t)er-*stems had originally the same inflexion; the difference between *-é-*:*-ē-* and *'-o-*:*'-ō-* was caused solely by difference of accent. Gr. *πατήρ πατέρα: μητρο-πάτωρ-, πάτωρ-, άνήρ: άνέρα: άγ-ήτωρ -ήνορα* and so forth, just as *φοήν φέρειν: ά-φειν ά-φεινα*. Moreover the same variation appears where the words are uncompounded; Gr. *δο-τήρ δο-τήρ* beside *δώ-τωρ, έγ-τήρ* beside *έγ-τωρ* and the like, and Skr. nom. *dā-tā* beside *dā-ta, pata* beside *pā-tā*, Avest. acc. *bar'-tār-em* = Skr. *bhartār-am* beside *bāsar-em* = Skr. *bhīrtār-am* (I § 260 p. 212 f.). In Greek there is no trace of a difference in meaning between these latter pairs of forms; in Sanskrit, on the other hand, the *nomen agentis* as a rule has the character of a participle when the root-syllable bears the accent (the governed nouns being usually in the acc., *vāsūni dāta* 'bona dans'), whereas, when the suffix is accented, it is a noun pure and simple (usually governing the gen., *vāsūnā datā* 'bonorum dator'). This distinction may be original, and

at one time have prevailed in Greek; indeed, the Lat. *da-tūr-u-s* vouches for the fact that these *nomina agentis* had a participial character in the parent language, as they actually have in Iranian. It follows that the difference of accent in this class of words may be originally based on a difference of accent in the sentence. Hence it is probable that

1. The acc. sing. nom. acc. du. had *-(t)or-* under some conditions, parallel to *-(t)er-* under others; cp. Gr. *δοῦ-τορ-α* *δοῦ-τες* (§ 122), Mid.Ir. *siair*, Goth. *brō-þar swist-ar* O.H.G. *bruo-dar*, Skr. *dā-tār-am svās-ār-am*.

2. The loc. sing. always ended in *-(t)er-i*, even where *-(t)or-* occurred in the strong cases of the same paradigm, cp. Skr. *dā-tār-i* (with *-ā-* as much as *dā-tār-i*), *svās-ar-i* beside *dā-tār-am svās-ār-am*; cp. Goth. loc. *áh-min*; acc. *ah-man*. Similarly in all the feminine derivatives in *-ī-* *-iē-* (§ 110 p. 336 f.) *-ter-ī* was no doubt the original form in the nom. sing.; cp. Gr. *ἐν-πύργῳ πυμ-μήτῳ* (from *ἐν-πύργῳ πυμ-μήτῳ*) as well as *δμη-τῳ* (beside *δμη-τῆς*).

Remark. The assumption that all *-ter-* stems had originally the same inflexion is further supported by the Gr. voc. *αῶ-τε* from *αω-τῆς* (just as *πα-τε* from *πα-τῆς*).

Considerable readjustment took place in Aryan and Greek in the inflexion of *nomina agentis* which accentuated the suffix. In Sanskrit we have *dā-ār-am* instead of **dā-tār-am* through the influence of *dā-tār-am*; similarly in the other strong cases. In Greek, the form *-τῆς* of the nom. sing. spread through all the cases: *δο-τῆς-α* instead of **δο-τῆς-α*, *δο-τῆς-α*; instead of **δο-τε-ός* and so forth; only a few vocatives singular are excepted, as *αῶ-τε* above. On the other hand, the *-tér-* of the *nomina agentis* is preserved in the Slavonic *-tel-* (§ 122): nom. pl. *žę-el-e* 'cutters, reapers' = Idg. **ghn-tére-s*.

Amongst the names of kindred, **bhrā-tor-* (Gr. *φοῦ-τορ-α*, Goth. *brō-þar*) seems to have been associated even in the parent language with forms that had *-tér-*, such as **pə-tér-*; e. g. an acc. **bhrā-ter-m* was formed beside **bhrā-tor-m*. Hence in Greek we find the by-forms *φοῦ-τῆς* *φοῦ-τε-ες*, in Sanskrit *bhrā-tar-am*, in Latin *frā-ter*; hence perhaps O.H.G. acc. *bruo-der* as well as *bruo-dar*. Yet while **bhrā-ter-m* arose by the side of **bhrā-tor-m*, no such form as **syésor-m* came into use beside **syésor-m* (Skr. *svās-ār-am*, Lat. *sor-or*), the reason perhaps being that the absence of *t* in the word prevented its association with forms like **pə-tér-* **mā-tér-*. But Avestic, West-Germanic and Lithuanian ultimately brought the word 'sister'

into close connexion with the other names of kindred; thus acc. Avest. *xiwaphar-em*, O.H.G. *sweater*, Lith. *sēser-i* (acc. below).

In Latin the nominative termination *-(t)ōr* spread through all the cases: *du-tōr-em du-tōr-is* etc., *sor-ōr-em sor-ōr-is* etc.

In Greek *-τωρ-* is only found in the nom. sing. except in an isolated example: Hom. *μησ-τωρ-α μησ-τωρ-ε;*

In Gothic *fadar* (contrast *τάρω-α*) was formed in imitation of *brōþar* (*broþar-α*) *swistar* (cp. *koþ-e;*); in Old High German the forms with *e*, such as *fater muoter*, had prevailed over *bruodar* etc. before the date of the earliest monuments of the language.

In Lithuanian we have *svail*, but acc. *sēser-i* gen. *seseþ-s* and so forth with *-er-*: here the analogy of *dūk-ter-i* (*duka-ter-α*) *duktrė-s* etc. has influenced the forms, aided perhaps by the original loc. sing. in **-er-i* (Skr. *svāsar-i*).

Compare the relations of Ablaut in the *n*-stems, which are on the whole similar, § 113 p. 342 ff. and what is said in the Remark there.

§ 121. Ablaut within the root-syllable varied *pari passu* with the variation in the suffix. **pā-tér-* 'father' Skr. *duhitár-* etc. 'daughter' have the weak-grade-vocalism; on the other hand **mā-tér-* 'mother' has that of the strong grade. Cp. I § 670 p. 535. Skr. *uṣ-ár-* 'dawn' beside Gr. *ἥρι* loc. 'early' for **ā́r(σ)-eg-* and *ἄριστο-ν* for **ā́r(σ)-eg-* (see § 122 p. 381).

In *nomina agentis*, the strong form of the root generally prevailed in Aryan, and that with either accentuation (*dā-tar-* and *da-tár-*); a few variations from this type seem to have survived from the period before varying forms were levelled; as Skr. *savyē-ṣthar-* 'the warrior who stands to the left of the charioteer' (*-sthar-* = **-st-tor-*) beside *sthā-tár-* *sthā-tar-*, Avest. *ā-frītar-* 'magician' beside Skr. *prā-tár-* 'benefactor, lover', Avest. *yūx-tar-* beside Skr. *yōk-tár-* 'yoker', Avest. *ker-tar-* beside Skr. *kar-tár-* 'doer'. In Greek we have *δο-τήρ*: *δώ-τωρ*, *βο-τήρ*: *βώ-τωρ*, cp. also *πο-τήρ* *-δετήρ* *βα-τήρ* and *ἀφ-ήτωρ*; but we also find *δω-τήρ* *ζευκ-τήρ* and *ἰσ-τωρ* (*ἰσ-τωρ*) with exactly the converse accentuation. In Latin, where *-tēr* was displaced by *-tōr* (*-tor*), we have *sta-tor* and *stā-tor*, *da-tor*, *sa-tor*, *condi-tor* and *pō-tor*, Umbr. *fertur* (Skr. *bhār-tar-* *bhar-tár-*). In the case of *in-ventor* *cēnsor* and the like it is impossible to say whether we have the weak or the strong grade. The Latin participles

da-tūru-s etc. follow the perf. part. (*da-tu-s*). In Slavonic we find both the strong (*da-telŭ*, *sŭ-dételŭ*, *bljus-telŭ*) and the weak grade (*žrŭ-telŭ*).

§ 122. Indo-Germanic. **daiuér-* **daiur-* and no doubt also **daiur-* (I § 155 Rem. p. 140¹) 'husband's brother, brother-in-law': Skr. *dēvár-*, Armen. *taigr* gen. *taiger* (*g* for *u*, I § 162 p. 145), Gr. *δαῖρ* for **daufḗρ* (I § 96 p. 90), Lat. *lēvir* (gen. *lēvirī*) for **lēver* through popular association with *vir* (cp. also I § 369 p. 279 f.), A.S. *tācor* (O.H.G. *zeihhur* (for the *c* and *hh* see Bugge, Paul-Br. Beitr. XIII 575), Lith. gen. sing. *dēvēr-s* (nom. sing. *dēvēr-ŭ-s* whence the by-form of the gen. *dēvēr-ės*; the word is also declined as an *io*-stem; the true nom. **dēvē* = Skr. *dēvā* Gr. *δαῖρ* no doubt dropped out of use owing to its gender and to avoid confusion with *dēvē* 'goddess') O.C.Sl. *dēver-ŭ*. Skr. *n-ār-*, Gr. *ἀν-ήρ*, gen. *ἀνδρ-ός*, 'man', *ἄρ-ών* 'human being' (Hesych.) for **nρ-* (I § 204 p. 170), Umbr. *ner-f* acc. 'proceres' *ner-us* 'proceribus'. Skr. *uś-ār-* 'early light, dawn' Gr. *ἤρ* adv. loc. 'early' for **ἤρ-ι* **āus-er-i* (*ἤρ-ι-ος* 'early'), beside which we have *ἄρι-στον* doubtless for **aus-er-* (I § 312 p. 249 f.), cp. also *ἄγχ-αυρο-ς* 'close on morning' *ἀῦρ-ι-ο-ν* 'morning' (for **aus-* or **āus-*) and Lith. *auszrā* 'red of the morning' (§ 74 p. 180). **suesor-* **suesr-* **suesr-* 'sister' (cp. p. 9 footnote, and § 120 Rem. p. 379 f.): Skr. *svāsar-* Armen. *koir* gen. *ker* (I § 560. 561 p. 416 f.), Lat. *sor-or* and *sobr-inu-s* (I § 570 p. 428), O.Ir. *siur* Cymr. *chwaer* (for **chwear-*), Goth. *svistar* instead of **svisar* through the influence of *svistr-s* etc. (I § 580 p. 433 f.), Lith. *sesė* gen. *seseřs*, O.C.Sl. *sestr-a* (I § 585 p. 439); we must no doubt class here Gr. *εορ* (vocat.) *θυγάτηρ*, *ἀνείωος* and *εορ-ες* *προσθήκοντες*, *συγγενής* Hesych. (*ε-* for *ἐ-* I § 564 p. 421), where the meaning has changed.

**pə-tér-* 'father': Skr. *pitár-*, Armen. *hair* gen. *haur*, Gr. *πα-τήρ* (note its form in compounds, e. g. *μητρο-πάτωρ*), Lat. *pater*, O.Ir. *athir*, Goth. *fadar*. **mā-tér-* 'mother': Skr. *mātár-*,

1) In this Remark a full stop should be inserted after the word 'formation': and in the preceding paragraph (§ 155) l. 4 read 'prim. Ar. **atharun-* ('fire-priest') not **atharyn-*, instead of 'for *atharyn-*'.

Armen. *mair* gen. *maur*, Gr. μήτηρ gen. μητρός (the accent of μήτηρ no doubt follows that of the voc. μήτηρ) (πρὸς-μήτρω), Lat. *māter*, O.Ir. *māthir*, Goth. *muoter*, Lith. *motė* and *mōtė* ('woman, wife') O.C.Sl. *mati*. Skr. *duhi-tār-* Gr. θυγάτηρ (like Skr. *dami-tār-* Gr. παν-δαμά-τωρ, p. 383) Armen. *dustr* (the *st* is obscure) Goth. *duūh-tar* (early Norse nom. pl. *doh-tr-i-s* like Gr. Hom. θυγάτηρ-ες) Lith. *duk-tė* O.C.Sl. *dūsti* 'daughter'.

**bhrā-tor-* and later **bhrā-ter-* 'brother' (cp. § 120 Rem. p. 379): Skr. *bhrātar-*, Armen. *elhair* gen. *elhaur*, Gr. φράτωρ φράτης (member of a φάραξ), Lat. *frāter*, O.Ir. *brathir*, Goth. *brōþar*, Lith. *broter-ėli-s* ('little brother'), O.C.Sl. *bratr-ŭ* (from which came *bratŭ* by dissimilation, as *prostŭ* from **pro-strŭ*, Miklosich, Etym. Wtb. p. 321) like *sestr-a*.

Nomina agentis (in Sanskrit the acc. always has *-tār-*, in Gr. *-τωρ* excepting μήτωρ, and *-τήρ*, in Lat. all cases have *-tōr-*). Skr. *pura-ētār-* 'he who precedes, guide', Lat. *praetor*, √ *ej-*. Skr. *vēttar-* 'knower', Gr. ἴστωρ ἰστωρ 'knower, witness'. Lat. *vīsor in-vīsor*, O.C.Sl. *sŭ-věstelŭ* 'conscious, witness' (*ě* in place of Idg. *oi* is not original), √ *uejd-*. Skr. *yōk-tār-* Avest. *yār-tar-* 'yoker', Gr. ζεύκ-τήρ 'yoke-strap' ζεύκ-τειρα 'binder (f.)'. Lat. *jūnc-tor*, √ *jeug-*. Skr. *bōddhar-* 'he who knows, or understands something', Gr. πειστήρ-ω-ς 'questioning, inquiring', O.C.Sl. *bljustel-ŭ* 'watchman', √ *bheydh-*. Skr. *bhar-tār-bhār-tar-* 'bearer, supporter, nourisher', Lat. *in-fertor* Umb. *aŕ-fertur* 'infertor, flamen'. Skr. *gān-tar-* 'he who goes, comes', Gr. βα-τήρ βαίρων, βωδιστικός (Hesych.), ἐπι-βήτωρ 'mounter, coverer', Lat. *in-ventor*, √ *gem-*. Skr. *han-tār-* 'he who strikes, kills, murderer', O.C.Sl. *žę-tel-ŭ* 'cutter', √ *ghen-*. Skr. *śās-tar-* 'he who recites', Osc. *cens-tur* 'censor', √ *kens-*. Skr. *pak-tār-* 'he who cooks, broils, bakes', Gr. πέν-τω-ια 'cook (f.)' (late), Lat. *coc-tor*, √ *peq-*. Skr. *sāttar-* 'he who sits', Lat. *ad-sessor*, √ *sed-*. Skr. *dha-tār-dhā-tar-* 'he who places, creator', Gr. θε-τήρ 'placer' (late), Lat. *con-ditor*, O.C.Sl. *sŭ-dětel-ŭ* 'conditor', √ *dhē-*. Skr. *sthā-tār-* 'standing, not moving' *sthā-tar-* 'charioteer' *savyē-ṣṭhar-* *savya-ṣṭhār-* 'the warrior who stands to the left of the charioteer' i. e. *-*st* + *tār-* (cp. Germ. **fir-sti-* § 100 p. 297), Gr. στα-τήρ *u*

weight and a coin ἀπο-στράτης 'apostate', Lat. *Juppiter Stā-tor*. *sta-tor ob-stetr-ī-x*, √ *sta-*. Skr. *pā-tār- pā-tar-* 'drinker', Gr. *πο-τήρ* 'drinking vessel, goblet' *οἶνο-ποτήρ* 'wine-drinker', Lat. *pō-tor*. Gr. *ἀγ-τωρ* 'leader' *ἐπ-αγτήρ* 'he who goes out for prey, hunter', Lat. *āc-tor āc-tr-ī-x*, √ *aġ-*. Avest. *zba-tar-* 'panegyrist' O.C.Sl. *zra-tel-ī*. Skr. *jñā-tār-* 'knower, acquaintance', Gr. *γνωστήρ* 'witness for the truth of a statement' (-σ- is an analogical insertion as in *γνωστός* beside *γνώ-τός*), Lat. *nō-tor*, O.C.Sl. *zna-tel-ī* 'knower'.

Skr. *dami-tār-* 'tamer', Gr. *παν-δαμά-τωρ* 'vanquisher of all', Lat. *domi-tor*. Skr. *jani-tār-* Gr. *γενε-τήρ γενέ-τωρ* Lat. *geni-tor* 'begetter', Lat. *gene-tr-ī-x*.

Aryan. Skr. *dēv-ār-*, Skr. *n-ār-*. Avest. *n-ar-* 'man', Skr. *nṣ-ār-*, Skr. *svās-ar-* Avest. *xwānḥ-ar-* 'sister' (§ 120 p. 379): see above, p. 381. Skr. *nūnand-ar-* 'husband's sister' is an analogical formation, cp. *nand-inī-* the same. Here should perhaps be classed Avest. *atar-* (acc. *atar-em*, nom. (a re-formation) *atarš*) m. 'fire'; *t* is in place of pr. Ar. *th*, as is shewn by Skr. *ātharvan-* and Avest. *āpravan-*.

Skr. *pi-tār-* Avest. *pi-tar- p-tar* (I § 473, 2 p. 349) O.Pers. *pi-tar-* (gen. *piša*, I § 261 p. 261 p. 213) 'father', Skr. *mā-tār-* Avest. O.Pers. *mā-tar-* 'mother', Skr. *duhi-tār-* Avest. *duġ'dar- duġ'dar-* 'daughter', Skr. *bhrā-tar-* Avest. O.Pers. *brā-tar-* 'brother', see p. 382 above. Skr. *jāmātar-* Avest. *zāmātar-* 'son-in-law'.

In proethnic Aryan *napāt-* *napt-* 'offspring, descendant' (§ 123) was associated with the names of kindred, first in the weak cases: Skr. *nāptar-* Avest. *naptr-* (cp. Czech *neti* below); yet the acc. sing. is Skr. *nāptāram* Avest. *naptārem*, like *svā-sāram*. Skr. gen. *pātyur* 'mariti' like *pitūr* (see Wackernagel, Kuhn's Ztschr. XXV 290).

Remark. In § 114 Rem. 1 p. 348 and § 117 Rem. 2 p. 369 mention was made of the transference of nominatives in *-ā* and *-mā* to the *ā*-declension: we see the same thing in Prākṛit, where *duhidā* 'daughter' and *mādā* 'mother' were inflected like *ā*-stems. Similarly, in Lithuanian *in-tė* 'brother's wife', and in some dialects also *sėse* 'sister', which is found side by side with *sesė*, were declined as *ē*-stems.

The class of *nomina agentis* was very fertile. Skr. *upa-kṣētár-* 'adherent', Avest. *xšaē-tar-* 'ruler'. Skr. *jē-tar-* 'conqueror'. Avest. *vi-ḍaētar-* 'one who looks around, spy'. Skr. *śrō-tar-* 'hearer', Avest. *srao-pr-i-* f. 'hearer (f.)'. Skr. *hō-tar-* Avest. *zao-tar-* 'high priest'. Skr. *stō-tár-* Avest. *stao-tar-* 'one who sings praises'. Skr. *jōṣ-tár-* *jōṣ-tar-* 'lover, protector' O.Pers. *dauš-tar-* 'friend': cp. Gr. *γευσ-τήρ-ιο-ν* 'vessel for tasting, goblet', $\sqrt{\text{geus-}}$. Skr. *vōḍhar-* 'carrier, draught-horse' Avest. *vaš-tar-* 'draught animal' (I § 482 p. 356): Lat. *vec-tor-*, $\sqrt{\text{uegh-}}$. Skr. *han-tár-* 'he who strikes, kills, murderer', Avest. *jan-tar-* 'killer, slayer' O.Pers. *jatar-* (read *jantar-*) 'slayer, foe': O.C.Sl. *žę-tel-i*, see above p. 382. Skr. *bhar-tár-* *bhár-tar-* Avest. *bar^t-tar-* *bašar-ber^t-tar-* 'bearer, supporter' (cp. § 120 p. 378): Lat. *in-fertor*; see above, p. 382. Skr. *dhar-tár-* 'bearer, supporter'. Avest. *der^t-tar-* 'holder'. Skr. *kar-tár-* *kár-tar-* Avest. *ker^t-tar-* 'doer'. Skr. *draṣ-tár-* 'he who sees', $\sqrt{\text{derk-}}$. Avest. *har^t-tar-* 'guardian, protector'. Skr. *sáttar-* 'sitter', Avest. *aiwi-šastar-* 'he who sits': Lat. *ad-sessor*; see above, p. 382. Skr. *dāgdhar-* 'incendiary' $\sqrt{\text{dhegh-}}$. Skr. *dhā-tár-* *dhā-tar-* Avest. *dā-tar-* 'he who places, creator': Gr. *θι-τήρ* etc., see p. 382 above. Skr. *mā-tar-* 'measurer', O.Pers. *fra-matar-* 'master', $\sqrt{\text{mē-}}$. Skr. *dā-tár-* *dā-tar-* Avest. *dā-tar-* 'giver': Gr. *δο-τήρ* *δω-τήρ* *δωι-τωρ* Lat. *da-tor* (*da-tr-i-x*) O.C. Sl. *da-tel-i* 'giver', $\sqrt{\text{dō-}}$. Skr. *sthā-tár-* 'standing' *sthā-tar-* 'charioteer, driver' *saoyē-ṣṭhar-* *savya-ṣṭár-* 'the warrior who stands to the left of the charioteer', Avest. *rapaē-štar-* 'the warrior who stands in the chariot': Gr. *στα-τήρ* etc., see p. 382 f. Skr. *pā-tár-* *pā-tar-* Avest. *pā-tar-* 'protector, guardian'. Skr. *yaṣ-tár-* Avest. *yaš-tar-* 'offerer', $\sqrt{\text{iaḡ-}}$. Skr. *vi-bhaktár-* Avest. *bar-tar-* 'divider', $\sqrt{\text{bhag-}}$. O.Pers. *a-yastar-* 'possessor' from Ar. *yat-* 'strive'. Skr. *śās-tár-* Avest. *sās-tar-* 'master'. Skr. *jñā-tár-* 'knower, acquaintance' Avest. *ēnā-tar-* 'learner, knower' (according to I § 403 p. 298 we should expect *šnā-tar-*): Gr. *γνωσ-τήρ* etc., see above, p. 383. Skr. *trā-tár-* Avest. *brā-tar-* 'protector'. Skr. *yá-tar-* 'he who goes, is on the way'. Avest. *a-snātar-* name of a priest who is responsible for ablutions.

Skr. *dami-tár-*, *jani-tár-*; see above, p. 383. Skr. *jari-tár-* 'singer', Cp. Avest. *aibi-jar'tar-* 'praiser'. Skr. *pavi-tár-* 'purifier', *vardhi-tár-* 'increaser', *vēdi-tar-* 'knower'. Avest. *daibi-tar-* 'deceiver'. Skr. *prati-grahītár-* 'receiver' *grābhī-tar* 'seizer'. Skr. *taru-tár-* *tūru-tar-* 'subduer'. Skr. *cōdayi-tár-* beside *cōdi-tár-* 'inciter'.

Towards the end of the Vedic period of Sanskrit, the nom. sing. du. pl. masc. of these *nomina agentis* began to be used with the present of *as-* 'esse' as a periphrastic future (cp. Lat. *datūrus sum*), which became a favourite construction in the classical period. In the third person the copula was usually omitted, and the form of the nom. sing. which had become fused with the verb, was generally kept even in the first and second persons of the plural and dual. Sing. *datāsmi* 'I will give' *datāsi datā*, du. *datāsvas datāsthas datārau*, pl. *datāsmas datāstha datāras*. Rarely 3 sing. *datāsti*, 1. du. *datārau svas* and the like.

The adjectival character of the *nomina agentis* created a neuter form for them in Sanskrit; thus nom. acc. sing. *da-tf* (in Veda also *-tūr*, see I § 285 p. 228), pl. *-tñi* etc. Cp. Lanman, Noun-Infl. p. 421 ff.

Armenian. Here are found only names of kindred, all of which have been already mentioned: *taigr* 'brother-in-law', *kair* 'sister', *hair* 'father', *mair* 'mother', *dustr* 'daughter', *elbair* 'brother'; see above, p. 381 f.

Greek. *δᾱήρ* 'brother-in-law', *ἀνήρ* 'man', *ἡρ* 'early' *ἔορ-ες* *προσήμεντες*, see above, p. 381. *ἀήρ*, gen. *ἀέρος*, f. m. 'air', Lesb. *αὔηρ*, compare *αὔρα* 'air'. *αἰθήρ*, *αἰθέρος*, f. m. 'aether', compare *αἰθήρ*.

πα-τήρ 'father', *μη-τηρ* 'mother', *θυγά-τηρ* 'daughter', *φρά-τηρ* 'member of a *φρατερία*'; see above, p. 381 f. *εἰνά-τερος* 'women married to brothers': Skr. *yā-tar-* (acc. *-tar-am*) 'husband's brother's wife' (probably for **iñ-ter-*, see I § 253 p. 207), Lat. *jani-tr-ī-c-ēs* (§ 119 p. 377), Lith. *in-tė* (gen. *in-tės*, cp. the Remark on p. 383) 'brother's wife'; it is still doubtful what we should assume as the original form of the root-syllable; there seem to have been both a form with *ə* following the root-syllable,

and a form without, as in Skr. *duhi-tār-*: Goth. *daūh-tar*. γασ-τήρ 'belly'.

The *nomina agentis* in *-τηρ-*, *-τορ-* were a fertile class. ἴστωρ 'knower, witness', ἐπι-ίστωρ 'conscious': Skr. *vēttar-* etc.; see above, p. 382. φνί-τωρ 'begetter': Osc. Fuutr-ei 'Creatrici, Genetrici', cp. also Skr. *bhavi-tar-* 'impending, future', √ *bhev-*. βα-τήρ 'βαίων, βαδιστικός' (Hesych.), ἐπι-βήτωρ 'mounter, coverer': Skr. *gān-tar-* etc.; see above, p. 382. βο-τήρ βώ-τωρ 'herdsman'. πούλυ-βότρυα f. 'much-nourishing'. ἀφ-ήτωρ 'slinger, shooter': Lat. *sa-tor*, √ *sē-*; some scholars add Skr. *s-tr-ī* 'wife' (cp. Lat. *sator* 'begetter') which as regards the form of the root-syllable bears the same relation to *sa-tor* and *-ή-τωρ* as Skr. *savyē-śthar-* to Gr. στα-τήρ and Skr. *sthā-tār-* (p. 382 f.). ἀμυλλο-δετήρ 'sheaf-binder': Skr. *ni-dātār-* 'fastener', √ *dē*. ἄκ-τωρ 'leader' ἐπ-ακτήρ 'he who goes out for prey, hunter': Lat. *ac-tor*. ἀλάστωρ 'not forgetful of punishment, avenging deity' beside ἄ-λαστο-ς λήθ-ω. λαμπ-τήρ 'lighter'. ὀπ-τήρ δι-οπτήρ 'watcher, spy'. ζωσ-τήρ 'girdle'. δια-βλήτωρ 'slanderer' (late). κρᾶ-τήρ 'mixing vessel'. δμη-τήρ 'subduer', Δμη-τωρ, δμη-τειρα 'subduer (f.)'. θηρᾶ-τήρ θηρη-τήρ, θηρᾶ-τωρ θηρή-τωρ 'hunter' (θηράω), κυβερνη-τήρ 'steersman' (κυβερνάω), αὐλη-τήρ 'flute-player' fem. αὐλη-τρ-ίς (αὐλέω), κοσμή-τωρ 'commander' (κοσμέω), μισθώ-τρ-ια 'procuress' (μισθόω). ληστῆρ ληίστωρ 'plunderer, robber' (ληίζομαι). σημάν-τωρ 'commander' (σημαίνω). φυλακ-τήρ 'watchman' (φυλάσσω for *-ακ-τωρ).

παν-δαμά-τωρ, γενε-τήρ γενέ-τωρ, see above p. 383. ἀλ-ε-τρ-ίς 'miller (f.)': ἀλ- for *μη-*? cp. Lat. *mol-i-tor*.

With *-τορ-* we find only μήσ-τωρ, Homer. acc. *-τορ-α*, 'counsellor' (but as a proper name Μήστορ-α), beside μήδ-ομαι.

Italic. Lat. *lēvir* modified in form by popular etymology; see above, p. 381. Umb. *ner-f* 'proceres'; see above, p. 381. Lat. *soror* for **smesōr*, see above, p. 381.

Lat. *pa-ter* Umbr. *Iu-pater* 'Juppiter' Iuve patre 'Jovi patri' Osc. patir 'pater' patereī 'patri' (I § 627 p. 471) Marruc. *patres* 'patris', Lat. *mā-ter* Umbr. *matrer* 'matris' Osc. *maatreis*

'matris', Lat. *frā-ter* Umbr. *frater* 'fratres' *fratrom* 'fratrum'; see above, p. 382. Lat. *ven-ter*.

In the group of *nomina agentis* we may assume that *-tōr-* had prevailed in all cases even in proethnic Italic; only the derivatives show *-tr-*. The formation seems to have been in active use in all dialects.

Lat. *m-fertor*, Umbr. *ař-fertur* 'infertor, flamen' acc. *ars-ferturo* dat. *-ferture*: Skr. *bhar-tār-*; see above, p. 382. Lat. *ē-versor*, Osc. *ἑρσορεῖ* (o to be read long) '*Versori, *ἑρσολῶ*', √ *uert-*. *cēnsor* (cp. § 79 Rem. 2 p. 231), Osc. *censtur* *keensztur* (for the *zs* see I § 209 p. 176), 'censor': Skr. *śās-tar-*, see p. 382 above. Lat. *m-spector*, Umbr. *speture* 'spectori' *speturie* dat. 'spectoriae': Avest. *spas-tar-* 'watchman'. √ *spek-*. Lat. *auc-tor*, Umbr. *uhtur* 'auctor' *uhturu* 'auctorem' *uhtretie* 'auctoritate'. Osc. *embratur* 'imperator', *regaturei* 'rectori'.

Lat. *pīs-tōr* *pīns-tōr* *pīs-tr-ī-x*: Skr. *pēṣ-ṭar-* 'grinder, crusher'. *fictor*. *vīc-tor*. *duc-tor*. *ūs-tor*. *dē-sertor*. *tortor* for '**torc-tor*', from *torqueō*. *com-mentor*: Skr. *man-tār-* 'thinker', Gr. *Μέντωρ*, √ *men-*. *tex-tor*: Skr. *tāṣ-ṭar-* 'foreman, architect, carpenter', √ *tek-*. *ēsor ēstr-ī-x*: Skr. *attār-* 'eater', Gr. *ὠμωσθήρ* 'eating raw food' (late) *νίστηρα* f. 'fasting' (late). *messor*. *cor-rēctor*. *rap-tor*. *can-tor*. *al-tor*. *oc-clisor*, from *caedō*. *sū-tōr*. *sprē-tor*. *im-plētor*. *viē-tor*. *flā-tōr*. *cūrā-tor*, *bellā-tor*; *fīni-tor*.

Lat. *domi-tor*, *geni-tor*; see above, p. 383. *meri-tōr-iu-s* *mere-tr-ī-x*. *dēbi-tōr*. *moli-tor*. *moni-tor*.

The connexion of the Latin participles in *-tūru-s*, such as *da-tūru-s*, with these *nomina agentis* can not be denied, but the *ū* is obscure (I § 89 p. 85).

In Old Irish only the names of kindred remain.

siur, acc. Mid.Ir. *siair*, 'sister'; see above, p. 381; through the influence of names of kindred in *-ter-* arose the forms gen. *sethar* acc. *sethir* dat. pl. *sethraiḃ*.

athir 'father', *māthir* 'mother', *brathir* 'brother', see above p. 381 f. To these the word for 'uncle' was assimilated, Mod.Cymr. *ewi-thr* O.Corn. *eui-ter*, cp. Lat. *avun-culu-s*.

Germanic. *svist-ar* O.H.G. *swest-er* 'sister', see above p. 381.

Goth. *fa-dar dauh-tar brō-par* O.H.G. *fater muoter tohter bruoder*; see above, p. 381 f. In O.H.G. another word seems to have been associated with these: *swiger*, gen. *swiger*, 'mother-in-law' (Skr. *śvaśrā*).

In Gothic, *-tru-m* (for **-tr-mi*) in the dat. pl. and *-tr-uns* (for **-tr-ys*) in the acc. pl. gave rise to the nom. pl. in *-trjus*, as *brōþrjus*, after the analogy of the *u*-declension. In Old High German the names of kindred were also declined as *o*-stems and as *a*-stems (according to their gender), but the feminine forms occur only in the pl., and not until a late period. Thus we have gen. sing. *fateres* beside *fater*, gen. pl. only *fatera*, gen. pl. *tohtera* beside *tohter*.

Of the *nomina agentis* we have only doubtful traces. A.S. *bæcestre* f. 'baker (f.)' and the like; see § 110 p. 336. A.S. *bealdor* O.Icel. *baldr* 'chief', O.H.G. *smeidar* 'artifex', see Kluge, *Nominale Stammbildungsl.* § 30. O.H.G. *friu-dil fri-dol* m. 'beloved' O.Icel. *fri-dill* 'concubinus': O.C.Sl. *prija-tel-ī* 'friend' Avest. *a-frītar-* 'one who pronounces a blessing' Skr. *prē-tar-* 'benefactor, lover': *l* must have arisen in Germanic, as in Slavonic, (*-tel-ī*) through dissimilation, cp. *murmudōn* etc. I § 277 p. 221; but there is difficulty in explaining the relation of the vowels in the root-syllable (cp. Brate in Bezzenb. Beitr. XI 187).

Balto-Slavonic. Lith. *dėver-ī-s* gen. *dėvėr-s* O.C.Sl. *dėver-ī* 'brother-in-law', Lith. *sesū* gen. *seseřs*, also nom. *sėsé* on the analogy of *mótė* etc. (cp. the Remark on p. 383), O.C.Sl. *sestra* 'sister', see above, p. 381.

Lith. *mo-tė* and *mó-tė* 'woman, wife' O.C.Sl. *mati* 'mother', Lith. *duk-tė* O.C.Sl. *dūsti* 'daughter', Lith. *bro-ter-ėli-s* 'little brother'. O.C.Sl. *bra-tr-ū* *bra-tū* 'brother', see p. 382 above. Lith. *in-tė* (gen. *intės*) 'brother's wife' (O.C.Sl. *je-tr-y* like *svekry*): Skr. *yā-tar-* etc., see p. 385 above; a confusion with *gentī-s* 'a relative' (m. f.) gave rise to the form *gent-ě* gen. *gentěř-s* or *gentěs* 'husband's brother's wife'. In Czech the inflexion of *neti* f. 'niece' (= Skr. *napt-ī*) was assimilated to that of the

names of kindred, partly in consequence of the similar ending of the nom. sing.: thus gen. *neter'-e*, like *mater'-e*; cp. Skr. *náptar-* p. 383.

The class of *nomina agentis* is found only in Slavonic, where it was fertile. In Lithuanian these forms were displaced by those in *-toji-s* = O.C.Sl. *-tajŭ*, as *ar-tóji-s* = O.C.Sl. *ra-tajŭ ora-tajŭ* 'arator'; as to Lith. *-klė* see I § 281 Rem. 1 p. 224. Slav. *-tel-* arose from *-ter-* by dissimilation; see I § 281 p. 224. *-tel-* without any additional suffix is still found in nom. gen. instr. pl., *-tel-e*, *-tel-ŭ*, *-tel-y* although the two latter forms may also be regarded as belonging to the *o*-decl.); elsewhere we have *-tel-je-*. *sŭ-věsteli* 'conscius, witness', *bljusteli* 'watchman', *žę-teli* 'reaper', *sŭ-dětelŭ* 'conditor', *zva-teli* 'caller', *zna-teli* 'knower'; see above, p. 382 f. *da-teli* 'giver', see above, p. 384. *prija-teli* 'friend', see above p. 388. *žri-teli* 'offerer, priest'. *olas-teli* 'commander' (*vladaq* 'I command, rule'), *zi-teli* 'inhabitant', *děla-teli* 'worker'. *sŭ-biratelŭ* 'collector'. *umě-teli* 'one who understands'. *sŭ-věděteli* 'conscius, witness'. *prosi-teli* 'beggar'. *goni-teli* 'follower'. *-iteli* was also used as an independent suffix: e. g. *po-dad-iteli* 'lender, bail, security', *po-greb-iteli* 'burier'.

VII. Suffixes in *-t*.

§ 123. The Suffix *-t*¹⁾. In the proethnic language this was a primary suffix; and it was most frequently found, as its use in Sanskrit, Greek and Latin shews, in the final members of compound words. These had the force of a participle, which was generally active and could be either an adjective or substantive. But *-t-* is used in this way only with roots which end in vowels, liquids, or nasals, such as *ei-*, *dhē-*, *bher-*, *ghen-*. Skr. *arthēt-* (*artha-t-t-*) 'busy, in haste', Lat. *comes* stem *com-i-t-* (properly 'one who goes with'), √ *ei-*. Avest. *fratema-dā-t-* 'one set first, set in front, chief', Gr. ὄης, gen. ὄη-ός, 'hired labourer', √ *dhē-*. Avest. *praotō-stā-t-* adj. 'in the rivers', Lat. *anti-sti-t-*, √ *stā-*.

1) De Saussure, Le suffixe *-t-*, Mémoires de la Soc. de Ling. III 197 ff.

Here must be classed **nepöt- *nept-* (Skr. *nāpat* 'offspring, descendant' instr. *nādbhiṣ* for **nabd-bhiṣ*, Lat. *nepōs*, Mid.Ir. *niae*, gen. *niath*, 'sister's son', O.H.G. *nefo* 'nephew, relative' Goth. *nīp-ji-s* 'cousin, relative', O.Icel. *nīð-r* 'offspring', O.C.Sl. *net-ijī* 'nephew, cousin', see I § 527 Rem. 1 p. 382, § 545 p. 399), if it belongs to the root of **pə-ter-* 'father' and if its original meaning was 'not having (a father's) protection, belonging to the family of uncle or grandfather', and hence 'nephew' or grandson'; see E. Leumann, *Festgruss an Otto von Böhtlingk* 1888 p. 77 f.

Next should be mentioned *noq-t-* 'night' (beside **noq-ti-*, cp. the suffix *-tati-* beside *-tat-* § 102 p. 308): Skr. *nák-t-* (Gaedicke, *Der Acc. im Veda* 177, B. Kahle, *Zur Entwicklung der Consonant. Decl. im Germ.* 32 f.), Gr. *νῆξ νυκ-τό-ς*, Lat. *nox* (which also forms *i*-cases), O.Ir. *in-nocht* 'hac nocte', Goth. gen. *nah-t-s* dat. *nah-t*, O.Lith. gen. pl. *nak-t-u*.

We also find a few substantive numerals (with *by*-forms in *-ti-*, see § 101 p. 306 f.). **dekṃ-t-* 'decade': Skr. *daśāt-*, Gr. *δεκάς* gen. *δεκάδ-ος* (for the *ῃ* see p. 392), Lith. pl. *dėšimt-s* O.C.Sl. pl. *deset-e*. In this way were formed Skr. *pañcāt-* Gr. *πεντάς* *πεντάς* 'a group of five' (I § 427 a p. 312) beside Skr. *pāñca* Gr. *πέντε* 'five', and other examples.

Lastly we find a certain number of nouns in different languages with a short vowel between the root and *-t-*; as Skr. *sravát-* f. 'river', Lat. *teges*, gen. *teget-is*, f. 'covering', Goth. *mitaþ-s*, stem *mitad-* f. 'measure', Skr. *vāghát-* 'praying', Gr. *ἀγγέ-τ-* 'gleaming', Lat. *teres*, gen. *teret-is*, 'turned, round, long'. Not one of these nouns appears in more than one language. Nevertheless it is natural to derive them from a common source.

In several branches of Indo-Germanic, particularly in Aryan, this suffix *-t-* was taken widely into use in combination with others by which it was extended. The new compound suffixes were used independently and became fertile, e. g. Skr. *-t-nu-*.

Aryan. Skr. *arthēt-*, Avest. *fratema-dat- praotō-stat-*, see above p. 389. Skr. *viśva-jī-t-* 'obtaining all by conquest', Avest. *iśasem-ji-t-* 'subduing, suppressing one's wish'. Skr. *deva-stū-t-*

'praising the gods', Avest. *ahūm-stu-t* 'praising the world'. Skr. *dēva-śrū-t-* 'heard of the gods, audible to them'. Skr. *vajra-bhṛ-t-* 'bearing the thunderbolt', Avest. *aš-ber^e-t-* 'enduring much' *a-ber^e-t-* 'purveyor' (appellation of a priest's assistant). Skr. *su-kṛ-t-* 'behaving well', Avest. *yās-ker^e-t-* 'transacting business'. Avest. *taxmār^e-t-* (*tazma-ar^e-t-*) 'pressing on hard'. Skr. *adhva-gā-t-* 'on the way, traveller', √ *gem-*. Less often in uncompounded words: Skr. *ri-t-* 'running', *hrū-t-* 'injurer, foe', Avest. *stū-t-* 'praiser'. Moreover these *-t-*stems are found in Aryan as feminine abstract substantives: Skr. *sam-i-t-* 'hostile meeting', *ni-yū-t-* 'team', *stū-t-* 'praise, song', *vṛ-t-* 'company, following, troop, band', Avest. *xšnūt-* 'wisdom'. For the Skr. *nāpāt-nāpt-* 'offspring, descendant' Avest. *napāt-napt-* (fem. Skr. *napt-ī-* Avest. *napt-ī-*) see above p. 390, and for Skr. *nāptar-* Avest. *naptar-* § 122 p. 383.

Extensions of this suffix gave rise to the suffixes *-tya-*, e. g. Skr. *kṛtya-s* 'faciendus' § 63 p. 123 f., *-tnu-*, e. g. Skr. *kṛtnū-ś* 'active' § 106 p. 320, *-tvan-*, e. g. Skr. *kṛtvān-* 'effecting' § 116 p. 364. Compare Skr. *mṛt-yū-ś* 'death' § 105 p. 318 f.

Skr. *nák-t-* 'night', see above p. 390. Skr. *daśāt-* 'a group of ten' *pañcāt-* 'a group of five', see above, p. 390.

A few Sanskrit nouns have *-at-* *-it-*. *śraśāt-* f. 'river'. *vahāt-* f. 'stream'. *saścāt-* f. 'stopping, cheek'. *vēhāt-* f. 'a cow which yeans prematurely, casts'. *vāghāt-* 'praying, one who prays'. *sarīt-* f. 'river, brook'. *yōṣīt-* f. 'girl, maiden'. *harīt-* 'tawny'. There is one word in *-ūt-*: *marūt-* name of the storm-gods.

Greek. *θηρς*, gen. *θηρ-ός*, 'hired labourer', see p. 389 above. *πλωρς*, gen. *πλωρ-ός*, 'swimmer' name of a fish. *ὠμοβρωρς*, gen. *-βρωρ-ός*, 'devouring raw flesh' (√ *ger-*, cp. I § 306 p. 242). *ἀγνώρς*, gen. *-γνώρ-ός*, 'unknown, not knowing'. *προβλήρς*, gen. *βλήρ-ός*, 'thrown forward, springing forward, prominent'. *δοριμής*, gen. *-μής-ός*, 'subdued by the spear'.

νύξ, gen. *νυκ-ός*, 'night', see p. 390 above.

δεκάς, *πεντάς*, see p. 390 above. So also *ἐπτάς* 'a group of seven' ground-form **septm-t-*, *ἐννέας* 'a group of nine',

δράς τριάς (this word cannot be compared with Lat. *triēns*, gen. *trient-is*), ἑξάς etc. In I § 238 p. 199, § 469, 7 p. 346 something has been said of the *-δ-* in these forms. In the Indo-Germanic case-system (*dek̑nt-* **sept̑nt-* and so forth) there was a variation between *t* and *d*, e. g. dat. **dek̑nt-ai*, instr. **dek̑nt-d-bhi(s)*. The only question is whether the Gr. *-δ-* arose from an assimilation of the cases with *t* to this latter form either in Greek or earlier, or whether the *δ* was a special Greek development, due to the terminations *-ας*, *-ασι*, which also belonged to the original *d*-stems (§ 128). The latter explanation now seems to me the more probable. Cp. *λάταγ-* § 130 Rem.

ἀργέτ- and *ἀργήτ-* 'gleaming' the nom. was perhaps originally *-ēt*, gen. *-et-os* and so forth (cp. below A.S. *hæle* 'hero' for pr. Germ. **chalēþ*). *κέρης*, gen. *-ητ-ος*, m. 'runner, courser', *ἔχης* m. 'possessor', *λέβης* m. 'cauldron, bowl'.

Italic. Lat. *com-es*, *anti-stes*, *nepōs* (gen. *nepōt-is* etc.; the weak form of the stem appears in *nept-i-s*), see p. 390 above. *sacerdōs*, gen. *-dōt-is*, for **sacro-dō-t-* I § 633 p. 473 f.; where it must be remembered that *-dō-t-* can be derived not only from $\sqrt{dō-}$, but also from $\sqrt{dhē}$ (cp. Gr. *θωμό-ς* etc. I § 315 p. 254). *locu-plēs*, gen. *-plē-t-is*, whose original meaning has not been clearly determined (see Corssen, Krit. Nachtr. 253). *man-suēs*, gen. *-suē-t-is* (beside *mān-suē-tu-s*). Add *in-gen-t-*, if it originally meant 'unknown, unheard of', and then 'extraordinary, huge', and so comes from $\sqrt{gen-}$ 'know' (Danielsson, Pauli's Altital. Stud. IV 149 f.).

Lat. *nox*, see above p. 390.

With *-et-*: *teges* (gen. *teget-is*) f., *seges* f., *merges* f.; *teres*, *hebes*. An isolated form is *caput*, gen. *capit-is*.

Remark 1. With *-it-*: *eques* (gen. *equit-is*) m. (*equo-s*), *pedes* m. (*pēs*), *vēles* m. (*vēlu-m*), *mīles* m., *circes* m. (*circu-s*), *palmes* m. (*palma*), *āles* subst. m. and adj. (*āla*). K. Walter (Kuhn's Ztschr. X 194 ff.) holds that these correspond to such Greek denominatives as *ἵππo-τα* (*eques*) *ἀγρό-τη-ς* (§ 80 p. 240). There seems to me to have been a confusion in Latin between *tā*-stems and compounds with *-i-t-* 'going' (see *com-i-t-* above), after the vowels preceding the *-t-* had become indistinguishable through phonetic change. The compounds attracted the *tā*-stems into their

own consonantal declension, a process which was assisted by popular etymology. But it is doubtful whether all these forms (*equus* etc.) were *tā*-stems to start with. It may certainly be assumed of a few examples, such as *ped-it-*, that (like *com-es*) they were real compounds of *-i-t-* 'going'.

Old Irish. *niae*, gen. *niath*, (Mid.Ir.) 'sister's son', *in-nocht* 'hac nocte', see p. 390 above.

With *-et-*: *cing-*, gen. *cinged*, 'hero, warrior' Gall. *Cinges-etis* *Cinget-o-rīx*, *traig* 'foot', *cin* 'debt', *luch* 'mouse'. Compare Gall. acc. pl. *Namnet-as*, and further (with *ā*) *Atrebāt-es* (beside O.Ir. *atreba* i. e. *ad-treba* 'possidet, habitat') as well as Ir. *ascad-* (nom. *ascae*) 'rival, enemy' *arad-* 'charioteer'; in these words it is difficult to determine the original form of the suffix.

Germanic. O.H.G. *nefo* 'nephew' for **nefō(đ)* has been attracted into the *n*-declension: Skr. *nāpāt* etc., see p. 390 above. O.H.G. *nift* 'neptis, privigna' = Skr. *napt-ī*.

Gen. sing. Goth. *naht-t-s* O.H.G. *naht-e-s*, dat. Goth. O.H.G. *naht-t* etc. (nom. Goth. *naht-s* O.H.G. *naht* 'night'): Skr. *nák-t-* etc., see above p. 390. In Germanic the various cases of this word followed different declensions.

Remark 2. Consonantal cases are found in the declension of the feminine nouns Goth. *caih-t-s* 'thing' *brus-t-s* 'breast' as from *naht-s*; and also from *spaurþ-s* (*spaur-d-*) 'race-course' *dulþ-s* (*dul-þ-*) 'feast'. The two latter should be compared with such Sanskrit fem. forms as *vṛ-t- stū-t-* (see p. 391), if their consonantal inflexion is original.

There is a class of nouns which show a vowel before the *-t-* (pr. Germ. *-þ-* or *-đ-*, following always the position of the accent), which have abandoned their old consonantal inflexion more or less completely. Goth. *mitaþ-s* (st. *mitad-*) f. 'measure', beside O.Sax. *metod* O.Icel. *mjǫtud-r* m. 'measurer, orderer, artist, creator'. O.H.G. *helid* A.S. *hæled* (also *hæle*, an old nom. without *s*, for **xalēþ*) O.Icel. *hǫld-r* 'hero'. O.H.G. *hehhit* 'pike', *sceffid* 'creator', *leitid* 'leader'. In Norse this class (*nomina agentis*) was fertile: e. g. *hatu-ðr* *hǫtud-r* 'hater', *skapaðr* 'creator' *framið-r* 'gestor, tributor, dator'.

Goth. *mēnōþ-s* (dat. *mēnōþ*, pl. nom. acc. *mēnoþ-s*) O.H.G. *mānōd* O.Icel. *mānað-r* (pl. *mānað-r* m. 'month'. The nominative form **mēnō(þ)* gave rise to Goth. *mēna* O.H.G. *māno*, which

then developed *n*-cases like *nefo*. In this word *-t-* was a secondary suffix, and so also in Goth. *veitvōþ-s* (*veitvōd-*) m. 'witness'; this form will be discussed below in § 176.

Balto-Slavonic. The Lith. nom. sing. *mėnà* (gen. *mėnesio*) may, with O.H.G. *māno*, be referred to **mėnōt*.

Lith. pl. *dėszimt-s* O.C.Sl. *desęt-e*; see p. 390 above.

Remark 3. The Slav. masc. *lakŭŭ* 'elbow, ell', *nogŭŭ* 'unguis', *pěcatŭ* 'seal' form cases according to the consonantal declension; e. g. gen. pl. *lakŭtŭ* nom. pl. *pěcat-e*. Have we here a secondary transference to this declension?

§ 124. The Suffixes *-tāt-* and *-tāt-* formed feminine abstract substantives from Adjectives and Substantives, and had in the proethnic and later periods the parallel forms *-tāti-* and *-tāti-*. They have been discussed in § 102 p. 308 ff.

§ 125. The Suffix *-nt-¹⁾*. In all periods this suffix formed all the active participles excepting that of the Perfect (§ 136). In most of the separate groups of languages it has remained in living use down to the present day.

nt- participles became simple nouns in all the languages, though more rarely in some than in others. They became partly adjectives pure and simple (with comparative and superlative), such as Mod.H.G. *reizend* 'charming' and partly substantives, such as Mod.H.G. *freund* 'friend'. This change from one part of speech to another has taken place at every stage in the development of the Indo-Germanic languages. Thus for example Mod.H.G. *zahn* (Lat. *dēns*) had become a substantive in the proethnic period, *freund* (Goth. *frijōnd-s*) in

1) H. Ebel, Das Suffix *-ant* und Verwandtes, Kuhn's Ztschr. IV 321 ff. M. Bréal, Origine du suffixe participial *ant*, Mém. de la Soc. de lingu. II 168 ff. F. Baudry, Le *t* du suffixe participial *ant*, ibid. 393 ff. O. Bechstein, De nominibus Latinis suffixorum *ent-* et *mino-* ope formatis, Curtius' Stud. VIII 335 sqq. (I have not been able to work through Ch. Bartholomae's essay, Die ar. Flexion der Adjectiva und Participia auf *-nt-*, which has just appeared in Kuhn's Ztschr. XXIX 467 ff., so as to make use of it for the following sections, but a cursory survey has shown me, to my great satisfaction, that we have arrived at the same conclusions on certain main points).

proethnic Germanic, *heiland* (A.S. *hælend*) in proethnic West-Germanic, and *der vorsitzende* (O.H.G. *furi-sizzando*) 'president' in High German. Compare § 144.

-nt- is sometimes added immediately to the root-syllable, e. g. **s-ŋt-* 'being' √ *es-* (Skr. *s-ánt-* *s-at-*), sometimes to stems having a tense-determinant, e. g. pres. **qi-nu-ŋt-* √ *qe-* (Skr. *ci-nv-ánt-* *ci-nv-at-*), **rud-ó-nt-* √ *reud-* (Skr. *rud-á-nt-*), **bhéydh-o-nt-* √ *bheydh-* (Skr. *bódh-a-nt-*), fut. **dō-sjó-nt-* √ *dō-* (Skr. *dā-syánt-*).

Remark 1. It is a plausible hypothesis that the 3. pl. in *-nti* and *-nt* (**rudó-nti* = Skr. *rudá-nti* **é rudó-nt* = Skr. *d-rudan*, cp. Lat. *rudu-nt*) is simply the bare stem of this participial formation, to which *-i* was sometimes added on the analogy of the 3. sing. in *-ti* beside *-t* etc. If so, the 3. pl. perf. (Gr. *τελόγγ-ῃσι* *-ῃσι*, Goth. *vit-un*) was doubtless formed originally with some other suffix; and as a matter of fact the *nt-* suffix is not used in that tense in Aryan.

The original variation of ablaut is on the whole clear:

In participles formed from non-thematic verbal stems, the suffix varied between *-ŋt-* and *-nt-* in the parent language; as Skr. sing. acc. *s-ánt-am* *ci-nv-ánt-am* gen. *s-at-ás* *ci-nv-at-ús* pl. loc. *s-át-su* *ci-nv-át-su* (instead of **s-at-sú* **ci-nv-at-sú*), cp. I § 226 p. 193, § 230 p. 196 etc.

With thematic stems, on the other hand, the suffix assumed the forms *-ó-nt-* and *-ŋt-*; as Skr. *rudá-nt-am* *rudat-ás* *rudat-su* (instead of **rudat-sú*) Gr. *ῥιδόντ-ρα* **ῥιδατ-ός* **ῥιδατ-οι* (replaced by *ῥιδόντος* and *ῥιδόντοι* *ῥιδόντοι*). It is certain that *-ó-nt-* and *-ŋt-* were original; but it is still a little doubtful whether the paradigm also contained *-e-nt-*. The nom. sing. ended partly in *-o-nt-s* (and under certain conditions perhaps in *-e-nt-s*), partly in *-ōn* (Gr. *ῥιδών* O.C.Sl. *bery*; there was no loss of *-t*, contrast *ῥιγών* for **ῥιγών-τ* I § 611 p. 461).

Remark 2. Special evidence for a form *-e-nt-* beside *-o-nt-* and *-ŋt-* is given by Mid.H.G. *zint* O.Icel. *tind-r* 'tooth, prong' = **d-en-t-* beside **d-on-t-* (O.H.G. *zan*, Gr. *δδόντ-* etc.) and **d-ŋt-* (Goth. *tuŋþ-*). It is possible to assume (with B. Kahle, *Zur Entw. der Conson. Decl.*, 19) that the loc. sing. was originally **dént(i)*, cp. loc. sing. *-en(-i)* *-men(-i)* § 113 p. 344 and *-(i)er-i* § 120 p. 379. Another view is also possible. **rud-é-nt-* may once have existed beside **bhéydh-o-nt-*, **d-é-nt-* beside **-d-o-nt-* as *qq-iv-ε*; beside *ā-qq-or-ε* § 113 p. 343 f. and *πα-τέρε* beside *παά-ροε*;

μῆτρο-πάρορ-; § 120 p. 378; while in the *-nt-* stems also in either case the loc. sing. may have had *-e-*, **dent-(i)*. This latter assumption would explain very simply the varying declension of these stems in the different languages. Observe especially that in this case there would be no necessity to suppose any levelling of different forms of the stem in participles like Lat. *rudēns rudentis* etc., inasmuch as *rudent-* would come as regularly from **rudēnt-* as from **rudpt-*.

§ 126. Indo-Germanic. Participles. **bhēr-o-nt- *bher-nt-*, beside **bhēr-e-ti* 'fert': Skr. *bhārant- bhārat-*, Gr. *φέρων* (*-or-*), Lat. *ferēns* (*-ent-*), Goth. *balrand-s* (*-and-*), O.C.Sl. *bery* (**-at-*). **dorkéjo-nt-*, from the causative **dorkéje-ti* 'causes to see'. *✓derk-*: Skr. *darsāyant-* 'causing to see' Goth. *ga-tarhjang-s* 'distinguishing': Skr. *tyajāyant-* 'bidding one abandon something' Gr. *σφετών* 'driving away quickly, scaring off'; Skr. *naśāyant-* 'causing to disappear, destroying' Lat. *nocēns* from **noceient-* (indic. *noceō*). **rud-ō-nt-*,¹⁾ **rud-nt-* from **rud-ē-ti* 'laments, howls': Skr. *rudānt- rudat-* Lat. *rudēns* (*-ent-*); Skr. *vidānt-* 'finding' Gr. *ιδών* 'seeing' Goth. *vitand-s* 'knowing'; Skr. *girānt-* O.C.Sl. *žry* 'swallowing' common ground-form **gry-ō-nt-*, *✓ger-*; Skr. *kṛtānt-* 'cutting off' Lith. *krintās* (*-ant-*) 'falling off'. **dō-sjō-nt-*, from **dō-sjē-ti* fut. 'he will give': Skr. *dasyānt-* Lith. *dūses* (*-ent-*). **uē-nt-* (the stem doubtless had this form in all the cases; for Aryan *vāt-* in the weak cases see § 110 p. 337), from **uē-ti* 'blows' (without vowel-gradation): Skr. *vā-nt-*, Gr. *ἄεῖς ἄ(f)εῖν* for **á(f)hvr-*; add Lat. *vent-u-s* Goth. *vind-s* 'wind', which have been extended by *-o-*. **sthā-nt- *stent-*, from **sthā-t(i)* (Lat. *sta-t*, Skr. *á-sthā-t* Gr. *ἑστη*): Skr. *sthā-nt-*, Gr. *στάς* (*σταρ-* may regularly represent either form of the stem), Lat. *stāns* (*stant-*, as in Greek); **dō-nt- *dō-nt-*, from *dō-t(i)* (Lat. *da-t* instead of **dō-t*, Skr. *á-da-t*): Gr. *δοῦς* (*δovr-* for **dō-vr-* or instead of **dā-vr-*, see I § 109 p. 102), Lat. *dāns* (*da-nt-* = **dō-nt-*). In the following examples the tense-stem ends in a consonant. **s-nt- *s-nt-*, beside **s-ti* 'is': Skr. *s-ánt- s-at*; in Greek the only trace of the orig. s. stem is **s-nt-* in the fem. Dor. *ἑασσα* i. e. **ē(σ)-ar-ia* § 110 p. 337

1) Or **rud-ē-nt-*, under other (more primitive) conditions, see § 125 Rem. 2. So also in the cases which follow.

(elsewhere we find new formations, such as Dor. *ἐντ-ες* Ion. *ἐόντ-ες* Att. *ὄντ-ες*), Lat. *prae-sēns* (-sent-), Pruss. *empriki-sins* 'present' (dat. -sentismu). **dé-d-ūt-* **dhé-dh-ūt-* (-ūt- no doubt in all the cases), from **dé-dō-ti* 'gives', √ *dō-*, **dhé-dhē-ti* 'ponit', √ *dhē-*: Skr. *dādat- dādhat-* (acc. *dādat-am dādhat-am*), Gr. *δίδωρ-* *τιθέιντ-* new formations in place of **δίδαρ-* **τιθάρ-* (J. Schmidt, Kuhn's Ztschr. XXVII 394 f.). **qi-mū-ūt-* **qi-mū-* -ūt-, from **qi-néu-ti-* √ *qeī-*: Skr. *cinv-ánt- cinv-at-* 'gathering, arranging', *śak-nuv-ánt-* 'being able'; in Greek we have a reformation *ἀγ-νύ-ντ-* 'breaking' taking the place of **ἀγ-νύ-ντ-*¹⁾ **ἀγ-νύ-ντ-* which would correspond to the 3. pl. *ἀγ-νύ-αντ-*. **mṛ-n-ūt-* **mṛ-n-ūt-*, from **mṛ-ná-ti*, √ *mer-*: Skr. *mṛ-n-ánt- mṛ-n-at-* 'grinding'; Gr. *δαμ-ν-ávτ-* (nom. *δαμνάς*) 'taming', where this strong form of the stem is carried through the paradigm.

A number of participles of this kind became simple nouns even in the parent language. Skr. *jāra-nt-* 'frail, old,

1) In this section, as in Vol. I § 235 p. 198 f., I have regarded -αντ- as the regular phonetic representative of original -ῃ-. This view has been recently attacked by Kögel in the Literar. Centralbl. 1888 Sp. 1380, in his criticism of Burghauser, who maintained (as I do) that *ἔδου* (for **ἔδου(ν)αντ-*) was the normal form of the 3. pl. of the root *es-*; the comparison Skr. *sánti* = Gr. *εἰσι* (for **αἰσι*) = H.G. *sind* 'is', says our critic, 'almost universally (??) accepted'. In view of this, I am bound to call attention to the evidence of the word *π-ávτ-* = Idg. **kṛ-ūt-* which is shortly to be mentioned in the text; a form which is of especial importance from its isolation, and which in my opinion decides the question of the representation of Idg. *ῃ* in Greek distinctly in favour of *αν*. Can any one maintain the alternative that in the protoethic period of Greek **π-ίσι* became *π-ávτ-* through the influence of the weak form **π-ατ-* = **kṛ-ūt-*? This form disappeared in that very period, and in other instances of levelling between different cases it is the reverse process and that only that has been established — e. g. -*φύτ-* for -*φύτ-* on the analogy of -*φύτ-*, *φε-ε-αί* for *φε-α-αί* on the analogy of *φε-ε-ν*. Nor are the objections urged by Meringer (Ztschr. f. österr. Gymn. 1888 p. 149 f.) against my theory at all more serious. I hope to find an opportunity elsewhere of dealing with his arguments in detail; suffice it here to say, that in maintaining as he does (p. 150) that the *e* of the Indo-Germanic sound **n*, which he and J. Schmidt assume in place of *ṛ*, 'naturally' became *a* in Aryan, he has completely overlooked the fact that before this **n* the Aryan *k*-sounds would necessarily appear as *c*-sounds, which no more happens here than it does before *ir* = Idg. *ṛr*.

hoary', Gr. γέρον (-o-rr-) 'old man'. Skr. śá-śvant- śá-śvat- 'complete, whole, every' for *śá-śvant- (I § 557 p. 413). Gr. πάντ- (πάς) ἅ-παντ- (ἅ-πάς) 'all, every', Idg. *k_u-ūt- *k_u-nt- originally perhaps 'coming to fulness', compare Skr. śva- 'swell out' Gr. νέω 'am pregnant' νέος 'fetus' (to the same root belongs Dor. πᾶ-μα § 117 p. 370 f.); cp. Goth. all-s § 66 p. 147 and Lat. omni-s § 95 p. 286. Skr. bṛ-hánt- bṛ-hat- 'exalted, high, great' fem. bṛhat-ī, O.Ir. Brigit f. ('she who is exalted'), see § 110 p. 337. *d-ó-nt- *d-ūt- 'tooth' (cp. § 125 Rem. 2 p. 395 f.) from √ed- 'eat': Skr. dánt- dat- (dat-ás dad-bhiṣ), Gr. ὀδόντ- nom. ὀδούς and ὀδών; *dar- appears in ὀδάξ § 86 p. 256, § 88 p. 265. Lat. dent- nom. dēns (Osc. dunt- = dont- is uncertain, see Danielsson, Pauli's Altital. Stud. III 184), O.Ir. dēt (Mod.Cymr. dant) dat. dēit, Goth. tunþ-u-s O.H.G. zan (see p. 402 f.), Lith. dant-i-s (we still find gen. pl. dant-ū beside dancziū¹); it seems more probable that Gr. Lesb. ἔδοντες was a re-formation, the original word being altered on the analogy of ἔδω, than that a by-form *éd-o-n-t- 'tooth' should have existed side by side with *d-ón-t- in Indo-Germanic; the ó- of ὀδοίς however has yet to be explained; the theory of J. Schmidt (Kuhn's Ztschr. XXV 51) and G. Meyer, (Gr. Gr.² p. 306) does not satisfy me.

Aryan. Skr. vāh-a-nt- Avest. vaz-a-nt- (nom. vāhan vazas) 'vehens': Lat. vehēns, Goth. ga-vigand-s, Lith. vežās O.C.Sl. vezý. common ground-form *uēgh-o-nt-, beside indic. *uēgh-e-ti 'vehit'. Skr. dhārāya-nt- Avest. dāraya-nt- 'holding', beside indic. dhārāya-ti- dārayēti; Skr. vāhāya-nt- 'causing to ride, causing to run': Gr. ὀξέων 'causing to drive, ride', Goth. vagjand-s 'setting in motion'. Skr. nāś-ya-nt- Avest. nas-ya-nt- 'becoming lost', beside indic. nāś-ya-ti nas-yeiti. Skr. prchá-nt- Avest. per'sa-nt- 'asking': Lat. poscēns for *por(c)-scent-, beside indic. prchá-ti per'saiti poscit ground-form *pr(k)-ské-ti, √prék-. Skr. vindá-nt- Avest. vinda-nt- 'finding', beside indic. vindá-ti vindaiti, √ueid-.

1) I see no sufficient reason for doubting that in dantū we still have the old *-nt-*stem (Brückner, Archiv für slav. Phil. III 247). grindū beside grindēti from grind-i-s 'deal board', only shews that the word has been influenced by the analogy of such forms as dantū.

Skr. *udan-yá-nt-* 'streaming' beside indic. *udan-yá-ti*. Skr. *vak-šyá-nt-* Avest. *vax-šya-nt-* fut. 'about to speak', beside indic. *vak-šyá-ti* *vax-šyeiti*. Skr. *vá-nt-* Avest. *vā-nt-* 'blowing', beside indic. *vā-ti* *vāiti*: Gr. *αἶς*, see above p. 396. Skr. *sná-nt-* 'washing oneself, bathing', beside indic. *sná-ti*: Lat. *nans*. Skr. *s-ánt-* Avest. *h-ant-* 'being, true', beside indic. *ás-ti* *as-ti* 'is'. Skr. *y-ánt-* Avest. *y-ant-* 'going, coming', beside indic. *é-ti* *aēiti*. Skr. *dád-at-* 'giving, *dádha-at-* ponens', Avest. *dadant-* 'giving, ponens', beside indic. Skr. *dádā-ti* *dádha-ti* Avest. *dadāiti*; the Avestic form was a new formation, see above, p. 397. Skr. *su-nv-ánt-* Avest. *hu-nv-ant-* 'pressing out', beside indic. *su-nó-ti* *hu-naoiti*. Skr. *kṛī-ṇ-ánt-* 'buying', beside indic. *kṛī-ṇá-ti*.

In proethnic Aryan, participles like *vā-n-t-* 'blowing' lost their nasal in the weak cases on the analogy of *sánt-am*: *sat-ás* etc. Compare § 110 p. 337. Beside Skr. *mahat-* Av. *mazat-*. (*mahat-á* *mahád-bhiš*, *mazaḥ*) 'great' we have a remarkable form Skr. *mahánt-* Avest. *mazānt-* (*mahánt-am*, *mazānt-em*). Compare with it the Vedic acc. *mahá-m* and such compounds as *mahá-grāmú-s* 'great host'. *mahánt-* is doubtless a contamination of *mahan-* (*mahān-*) and *mahat-*; compare § 135.

On the whole Sanskrit has preserved faithfully the vowel-gradation of proethnic Aryan; e. g. sing. acc. *prchá-nt-am* *su-nv-ánt-am* instr. *prchat-ā* *su-nv-at-ā* pl. instr. *prchád-bhiš* *su-nv-ád-bhiš*. On the other hand, we find in Avestic the strong form of the stem constantly transferred to the weak cases, as gen. pl. *jasent-am* contrasted with Skr. *gacchat-ām*, dat. pl. *ber'zenbyō* contrasted with Skr. *bṛhád-bhyas*.

Participles used simply as nouns. Pre-Aryan: Skr. *járant-*, Skr. *śá-śvant-*, Skr. *bṛhánt-*, Avest. *ber'zant-* 'exalted, high, great', Skr. *dánt-* 'tooth' (Avest. *dant-an-* has the *-en-* which is so common in names of parts of the body, cp. § 114 p. 345 ff.); see above, p. 397 f. Aryan: Skr. *mahnt-* Avest. *mazānt-* 'great', see above, Skr. *pṛśant-* 'spotted, dappled', *dhṛśánt-* 'courageous, bold', *ṛhánt-* 'small, little' (the opposite of *bṛhánt-*), Avest. *sao-šya-nt-* fut. part. 'who will help, saviour, preserver'.

Greek. Participles. *ῥέων* (*-o-rr-*) 'flowing', beside indic.

ῥίει ῥεῖ: Skr. *srāv-a-nt-*, √ *sreṣ*. φορέων 'bearing', from φορέω
 φορῶ: Skr. *bhārāya-nt-*, √ *bher-*. πέψων (-ο-ντ-) fut. 'about
 to cook', from πέψω, √ *peq-*. λιπών (-ο-ντ-) 'leaving', from
 ἔ-λιπ-ον: Skr. *vic-ā-nt-* √ *leiṣ*. γνούς (-όντ-) 'learning' for
 *γνω-ντ- (I § 611 p. 481), from ἔ-γνω-ν; μιγείς (-έντ-) 'mixed
 with, united with' for *μιγη-ντ-, from ἐ-μίγη-ν. τεκταίνων 'making',
 from τεκταίνω for *τεκταν-χω. τιμάων 'honouring', from τιμάω.
 δουλάων 'subjugating', from δουλῶ. στάς (σάντ-) 'placing one-
 self, being in a position', beside ἔ-στη-ν; see p. 396 above. πᾶς;
 (acc. πᾶντ-α gen. πᾶντ-ός) 'complete, all' for *κμ-ήτ-, see p. 398
 above; the indic. would perhaps be *ἔμ-τι. πῆψας (-αντ-) part. aor.
 'cooking', beside ἐ-πειψ-α, instead of *πεπ-σ-άντ- *πιπ-σ-ατ- =
 *peq-s-ḥt- *peq-s-ḡt- or perhaps instead of the single form *πέπ-
 -σ-ατ- = *ρέq-s-ḡt- (which may have been regular in all the
 cases); the latter view is supported especially by Ved. nom. sing.
dhákṣat (*dah-* 'burn'). τιθείς (-έντ-) 'placing' contrasted with
 Skr. *dādḥ-at-*; see above, p. 397. ἠγνός (-όντ-) 'breaking' (trans.)
 contrasted with Skr. *śak-nuv-ānt-*; see above, p. 399. δαμν-ᾶς
 (-άντ-) 'taming', see *ibid*.

In Greek only a few traces remain of the different forms
 due to the original vowel gradation. Beside φέροντ- a form
 *φέρωντ- = Skr. *bhārat-* is implied in Heracl. loc. pl. προῤσσόν-
 τασσι and the like: such a form as *φερασσι for *φερατ-σι (Skr.
bhārat-su) would be altered to φερόντ-ασσι through the influence
 of φέροντ- in the other cases. Dor. ἔασσα (Cret. dat. ἰάττα) =
 Skr. *s-at-ī* has been already mentioned on p. 396. If we may
 trust a few corrupt glosses in Hesychius, a form *φεκατ-*, fem.
ἀ-έκασσα once existed beside ἔκων ἐκόντ-ος 'willing'. See R. Kōgel,
 Paul-Br. Beitr. VIII 116, J. Schmidt, Kuhn's Ztschr. XXV
 590 ff.

Remark 1. It is very questionable whether θέρμασσα 'furnace, stove'
 comes directly from the partic. θέρμων 'warming', as some maintain. It is
 important to notice that we have the parallel form θερμαίνω. Cp. πρό-φερασσα
 beside πρό-φρων.

Participles used simply as nouns. Pre-Greek: γέρων, πᾶς,
 ὀδούς, see p. 398. Greek: δράκων 'dragon' (δρακῶν part. aor.),

ἄρχων 'ruler', *κράτων* 'ruler' (*εὐρυ-κράτων* 'ruling over wide realms'), μέδων 'counsellor, lord' (*εὐρυ-μέδων*): Goth. *mitand-s* 'measuring', ὀρίζων 'the bounding line, horizon'; ἑκὼν 'willing', φαέθων 'shining, bright', μέλλων 'future'.

Italic. Participles. Lat. *sedēns* (*-ent-*), Umbr. *zeřef serse* 'sedens'. Lat. *prae-sēns*, Osc. *praesentiā* 'praesente'. Lat. *dūcēns*: Goth. *tiuh-a-nd-s* 'drawing', √ *deuk-*. *agēns*: Skr. *āj-a-nt-* Gr. ἄγων, √ *ag-* 'agere'. *monēns* for **monejēnt-*, beside *moneō* (I § 134 p. 121): Skr. *manáyant-* 'honouring', √ *men-* 'remember, think'. *cōn-spiciēns*: Skr. *paś-ya-nt-* 'seeing', √ *spek-*. *rudēns*: Skr. *rud-ā-nt-* 'lamenting', √ *reyd-*. *porrēns* (*verrēns*): O.C.Sl. *vřichy* 'threshing', √ *uers-*. *rumpēns*: Skr. *lumpā-nt-* 'breaking'. *im-plēns*, beside *im-ple-t* (*plē-*). *flāns*, beside *fla-t* (*fla-*). *albēns*, beside *albe-t*. *plantāns*, beside *planta-t*. *stāns*, *dāns*, see p. 396 above. *mi-nu-ēns* *ster-nu-ēns* may represent immediately the original forms in *-ny-ūt-* *-nu-ūt-*; and similarly *li-nēns* *ster-nēns* (*li-n-ent-* *ster-n-ent-*), may be directly compared with Skr. *mṛ-ṇ-ānt-* Gr. *δαμ-ν-άvr-*; see above, p. 397.

Few traces can be found of vowel gradation in the stem. If the form *-e-nt-* did not ever occur beside *-o-nt-* *-yt-* in the original paradigm of the participles from thematic stems (see § 125 Rem. 2 p. 395 f.), then in all the examples of participles of this class in Latin, *-ent-* must be due to an assimilation of all the cases to those with Idg. *-yt-* (e. g. gen. *rudent-is* = Skr. *rudat-ās*). The grade *-o-nt-* is still seen in *eunt-is* etc. beside *iēns*, *flexu-nt-ēs* beside *flexentēs*, Roman knights on active service, *voluntas* for **volont-i-tas* beside *volēns*, and other examples; see Bechstein in Curtius' Stud. VIII 344. 348. 352; the forms *ferundu-s* *faciundu-s* also are indirect evidence for *o-nt-* in the partic.; see § 69 p. 162. In the participles from non-thematic stems, such as *prae-s-ent-*, *-ent-* regularly represents both *-ūt-* and *-yt-* (I § 240 p. 200); and this form, which appeared in all the cases, may have helped to establish *-ent-* in the former class to the exclusion of *-o-nt-*.

The purely nominal use of the suffix is here more common than in Aryan and Greek. Pre-Italic: Lat. *dēns*, see p. 398.

Lat. *prae-sēns*, Osc. *prae-sentid*. Lat. *serpēns*, *parēns*, *ad-ulēscēns*, *cliēns*, *oriēns* (sc. *sōl*); *ē-loquēns*, *con-gruēns*, *in-nocēns*, *sapiēns*, *abundans*, *in-tolerans*. In its adjectival function the participial suffix was fertile even beyond its original sphere; thus such forms as *bene-volenter* -*volentior* -*volentissimu-s* which were attached to *bene-volu-s* etc., produced *māgni-ficenter* -*ficentior* -*ficentissimu-s* (from -*ficu-s*).

In Old Irish it is only used as a purely nominal suffix. *Brigit* f. = Skr. *bṛhat-ī* and *dēt* 'tooth', see above p. 398. *lōche*, gen. *lōchet*, 'flash', √ *leuk-*, *brāge* 'neck'. *care cara*, gen. *carat*, 'friend', Gall. *Carant-onus Carant-illus*. *tē*, pl. *tēit*, 'hot' for **tepent-* (I § 339 p. 269).

Germanic. Goth. *kius-a-nd-s* O.H.G. *chios-a-nt-i* 'trying, choosing': Skr. *jōṣ-a-nt-* 'being fond of', √ *ḡeys-*. Goth. *us-vakja-nd-s* 'awakening' O.H.G. *wecche-nt-i* 'wakening': Skr. *vājāya-nt-* 'urging, driving on', √ **ueḡ-* 'move, be strong'; Goth. *fra-wardja-nd-s* O.H.G. *far-wertte-nt-i* 'causing to disappear, destroying': Skr. *vartāya-nt-* 'causing to turn, or run a course', √ *uert-*. Goth. *nasja-nd-s* O.H.G. *nerie-nt-i* 'saving', √ *nes-*. O.H.G. *feh-ta-nt-i* 'fighting': Lat. *pec-tēns*. Goth. *vit-a-nd-s* O.H.G. *wizz-a-nt-i* 'knowing': Skr. *vid-á-nt-* 'finding', Gr. *id-ó-vr-* 'seeing', √ *ueḡd-*. Goth. *ga-daur̥s-a-nd-s* 'venturing': Skr. *dhyṣ-á-nt-* 'courageous'. Goth. *salbō-nd-s* O.H.G. *salbō-nt-i* 'anointing', beside indic. Goth. *salbō-p* O.H.G. *salbō-t*.

The original vowel-gradation has disappeared. But an example of original -*ūt-* survives in Goth. *hulund-i* 'cave, hole' § 110 p. 337.

The participles in actual use were declined in Gothic as weak *n*-stems; except that in the nom. sing. we have -*nds* i. e. *-*nd-a-z* besides the usual form from *n*-stems: thus, nom. *kiusa-nds* and -*nda*, gen. -*ndins* and so forth. In Old High German this participle was an -*jo*-stem; -*nti* is the so-called uninflected form. Parallel to it is the inflected form: 'strong' -*ntēr*, 'weak' -*nto*. See the sections on the cases.

Participles becoming Substantives:

Pre-Germanic. Goth. *tunþ-u-s* O.H.G. *zan* 'tooth', see

above p. 398. This variation arose from the original doublet, pr. Germ. **tānþ-* = **d-ó-nt-* and **tund-* = **d-ýt-*. Such cases as acc. sing. Goth. *tunþ-u* (instead of **tanþ-u* = **dónt-m*) gave rise to the *u*-inflexion; see Kahle as already quoted, 12 ff.

Examples common to all branches of Germanic are: Goth. *frijōnd-s* O.H.G. *friunt* 'friend' ('who loves'), Goth. *fiþand-s* O.H.G. *fiant* 'enemy' ('who hates'), no doubt also Goth. *all-waldand-s* O.Sax. *alo-waldand* 'All-ruler, Almighty' O.H.G. *waltant* 'ruler, director', and a few similar words. Other examples are found only in single dialects or groups of dialects, as Goth. *giband-s* 'giver', *mērjand-s* 'proclaimer', O.H.G. *wīgant* A.S. *wīzēnd* 'fighter', O.H.G. *helfant* 'helper'. These participles, which became substantives only in Germanic, still show an unextended *nt*-inflexion, though it is nowhere found in all the cases: e. g. nom. pl. Goth. *frijōnd-s* O.H.G. *friunt* O.Icel. *frēnd-r* = **-nt-es* (Gr. *-ντ-ες*), loc. (dat.) sg. Goth. *frijōnd* O.H.G. *friunt* = **-nt-i-* (Gr. *-ντ-ι*); whereas other cases in Gothic and West-Germanic follow the *o*-declension, as nom. sing. Goth. *frijōnd-s* O.H.G. *friunt* (thus in O.H.G. we have nom. pl. *friunta* as well as *friunt*), and in Norse follow the *n*-declension, as nom. sing. *frāende frāendi*.

A still younger stratum is formed by substantives like O.H.G. *waltanto* 'he who rules', *furi-sizzando* 'architriclinus', *nerrendeo* 'preserver, saviour'. Their substantival use was based upon the *n*-inflexion, to which as participles they were transferred; compare Mod.H.G. *der reisende* and the like.

Balto-Slavonic. Lith. *vežās* O.C.Sl. *vezý* 'vehens': Skr. *vāh-a-nt-* etc., see p. 398 above. Lith. *velkās* O.C.Sl. *vlěky* 'dragging, drawing': Gr. *ἐλκων*, *√(s)uelq-*. Lith. *pinās* 'plaiting' O.C.Sl. *pъny* 'stretching, hanging', ground-form **pъn-ó-nt-*, *√(s)pen-*. Lith. *mėlžās* 'milking': Gr. *ἀμέλγων* 'milking'; O.C.Sl. *mlūzy* 'milking': ep. Skr. *mṛj-á-nt-* 'wiping off, rubbing off'. Lith. *limpās* 'cleaving, clinging': Skr. *limpá-nt-* 'smearing', *√leip-*. Lith. *bū-sės* O.C.Sl. *by-še* fut. 'about to be' (*byšasťe-je* 'τὸ μέλλον', the only relic of the future participle in Slav.): Avest. *bū-šya-nt-*, common ground-form **bhū-sj-ó-nt-*, *√bhey-*. Lith. *jėszkas* 'seek-

ing', beside indie. 1. pl. *jěszkō-me*, for **jěszkō-nt-* (I § 615 p. 465): O.H.G. *eiscōnt-i* 'inquiring, asking' Lith. *turīs* (*turint-*) 'having', beside indie. 1. sing. *turiū* 1. pl. *tūri-me*. O.C.Sl. *chvalę* (gen. *chvalęsta*) 'praising', beside indie. 1. sing. *chvalja* 1. pl. *chvali-mū*.

The old vowel-gradation has disappeared. Participles belonging to non-thematic vowel stems followed the analogy of stems in *-o-nt-*, e. g. Lith. *ėsq̃s* and *ėsq̃s* O.C.Sl. *sy* 'being', beside indie. *ēs-ti jes-tū*. In Prussian however there is a form *-sins* = Idg. **s-ŋt-* or **s-nt-* (p. 396 f.).

Remark 2. I cannot believe that Lith. *dañgujėsis* 'heavenly' = *danguję* loc. + *sis* 'being' (J. Schmidt, Kuhn's Ztschr. XXVII 393). Nor can I believe that O.C.Sl. *dadę* beside *dady* 'dans' represents another non-thematic form corresponding to the 3. pl. *dad-ęti* (= Skr. *dād-atī*); as to *dadę* and other forms in *-ę* beside *-y* see O. Wiedemann, Beitr. zur altbulg. Conjug. 128 f., Leskien Handb.² p. 76 f.

In Baltic and Slavonic most of the cases of the *-nt-* participles were attracted into the *io*-declension owing to the suffix of the feminine; e. g. gen. Lith. *vėžancio* O.C.Sl. *vezęšta*. The acc. sing. Lith. *vėžant-į* still belongs to the unaltered consonantal inflexion.

Lith. *dant-i-s* 'tooth': Skr. *dānt-* etc., see p. 398 above. Pruss. *dilant-s* 'worker'.

§ 127. The Suffix *-yent-¹⁾*. This Suffix appears in Aryan, Greek and Italic in denominative adjectives; it usually denotes the possession of something, more rarely a resemblance to something.

In the strong cases *-yent-* = Skr. *-vant-* Gr. *-fer-*, and in the weak cases *-ynt-* = Skr. *-vat-* Gr. **-fat-*. The latter was displaced by *-fer-* (loc. pl. *χαριῶσι* = **χαρι-fer-σι*, fem. *χαριῶσα* = **χαρι-fer-ια*), *ε* being taken from the cases which had *-(f)err-*. Lat. *-ōnsu-s* *-ōsu-s* for *-o-ynt + to-*, a derivative form which also appears in Avestic, see § 79 p. 231 f.

1) See Ebel's (and Bartholomae's) essays mentioned on p. 394 footnote. A. Goebel, De epithetis Homericis in *εἰς* desinentibus, Wien 1858, Schuster, Die homerischen Adjectiva auf *-εἰς*, Ztschr. für österr. Gymn. 1859 § 16 ff. O. Schönwerth and C. Weyman, Über die lateinischen Adjectiva auf *osus*, Archiv für lat. Lexicogr. V 192 ff.

In the proethnic language this suffix seems to have been displaced by *-ues-* *-uos-* in a certain number of the cases. We have evidence of this in the proethnic Aryan nom. sing. masc. in **-uās* (Avest. *-vā*, altered in Skr. to *-vās* *-vān*, see § 136 Rem. 2), voc. sing. masc. in **-uas* (Skr. *-vas*, Avest. *-vō*) and the Greek **rā-fos* Hom. *τῆος* compared with Skr. *tā-vant-* (see Rem. 1). Observe the similar phenomena in the Aryan *-mant-* stems (Whitney, Skr. Gr. § 1235): nom. sing. Skr. *-mās* *-mān* Avest. *-mā*, voc. Skr. *-mas* (Avest. **-mō*), and notice the Homeric forms *τῆ-μους* and *ῆ-μους* (Dor. *τᾶμους* *ᾶμους*) (which are probably to be compared with the Aryan stems in *-mant-*), beside which we have *τᾶ-μουν* in Thessalian; Solmsen (Kuhn's Ztschr. XXIX 77) and Kozlovskij (Archiv f. slav. Phil. X 657 f.) are no doubt right in comparing O.C.Sl. *ta-mo* 'thither' *ja-mo* 'whither'.

Idg. Skr. *āpa-vant-* 'watery', Gr. *όνό-τις* 'rich in sap'. Skr. *viṣā-vant-* 'poisonous, poisoned', Lat. *virōsu-s*. Gr. *δόλο-τις* 'crafty': Lat. *dolōsu-s*. Gr. *οἰνό-τις* 'made of or with wine', Lat. *vinōsu-s* 'full of wine' or 'like wine' (*sapor, odor*).

Remark 1. Further examples of the meaning 'like something' are *aestuōsu-s* *cadāverōsu-s* *mōnstruōsu-s* etc. (Archiv für lat. Lexikogr. V 216 ff.); examples from Aryan are Skr. *vṣṣān-vant-* 'like a *vṣṣān-*', *īndrasvant-* 'like Indra' (the *s* is due to the analogy of stems in *-as-*), Avest. *drafsāka-vant-* 'like a small flag, fluttering, undulating' (K. Geldner, Kuhn's Ztschr. XXV 401). This meaning is specially frequent in the Sanskrit adverbs in *-vāt* (acc. neut.), such as *angiras-vāt* 'like angiras' *pūrva-vāt* 'after the ancient fashion, as of yore', and in the adjectives formed from pronouns such as Skr. *tā-vant-* *tvā-vant-* Avest. *hwā-vant-* 'who is of thy nature, like thee', Skr. *tā-vant-* *etā-vant-* Avest. *aēta-vant-* 'tantus' Skr. *yā-vant-* Avest. *ya-vant-* 'quantus', from which we cannot separate Hom. *τῆος* *ῆος* Dor. *ᾶ*; for pr. Gr. **rā-fos* **ā-fos*.

Aryan. The accent in Sanskrit falls sometimes on the suffix, but oftener on the word to which it is added. Skr. *āma-vant-* Avest. *ama-vant-* 'acting with violence, constraining with force, strong', from Skr. *āma-* Avest. *ama-* m. 'violence, strength'. Skr. *putrā-vant-* Avest. *puṣra-vant-* 'having a son or sons', from *putrā-* *puṣra-* m. 'son'. Skr. *vastra-vant-* 'having a beautiful garment' Avest. *vastra-vant-* 'provided with clothing', from *vāstra-m* *vastre-m* 'garment, vesture'. Skr. *agni-vānt-*, 'provided with fire',

from *agnī-ś* 'fire'. Skr. *dhī-vant-* 'devout' from *dhī-ś* f. 'devotion', *udan-vánt-* 'rich in water' from *udán-* n. 'water', *brāhman-vant-* 'accompanied with prayer' from *brāhman-* n. 'prayer' (I § 229 p. 195), *nṛ-vánt-* 'rich in men' from *nár-* m. 'man', *marút-vant-* 'accompanied by the Maruts' (*marút-*), *pad-vánt-* 'having feet', from *pád-* m. 'foot', *támas-vant* 'dark' from *támas-* n. 'darkness', *nas-vánt-* 'with a nose' from *nás-* f. 'nose'. Avest. *gaoma-vant-* 'provided with flesh' from *gaoma-* m. 'flesh', *aśi-vant-* 'holy' from *aśi-ś* f. 'holiness', *astvant-* i. e. *astu-vant-* (cp. I § 159 p. 143) 'having a body, corporeal' from *astu-ś* m. 'body', *d^abiś-vant-* 'hostile, hating' from **d^abiś-* Skr. *dvīṣ-* f. 'hate, enmity'. In Old Persian the suffix occurs in the feminine proper name *harau-vat-i-* = Avest. *haraxvait-i-* Skr. *sáras-vat-i* (*sáras-vant-* 'rich in water'); cp. I § 159 p. 143.

We have no certain explanation of the length of the final vowel of the contained stem in Skr. *áśva-vant-* beside *áśva-vant-* 'possessing horses' from *áśva-*, *sutá-vant-* 'provided with pressed soma' from *sutá-*, *śakti-vant-* 'mighty' from *śakti-*, *viśu-vánt-* which has or wears different sides, which is in the middle' from *viśu* and the like. Cp. *má-vant-*, *yuṣmd-vant-*, *tá-vant-* in Rem. 1. p. 405 and *áśva-magha-s* etc. § 22 p. 38, and also Gr. *-αί-εις* *-ή-εις* in the Greek section.

This suffix was frequently added in Sanskrit to the passive participle in *-tá-* (§ 79 p. 225 f.), as *kṛtá-vant-* 'factum habens, having done'. In the course of the Vedic period this was developed into a perf. part. act., which is very common in classical Sanskrit, where it is almost always used as a predicate; e. g. *mā na kaścid dṛṣṭavān* 'no one has seen me'.

Greek. The *f* of *-fivt-* appears e. g. in Coreyr. inser. *στονόςεσαν* = Homer. *στονόςεσαν*. *ἀμπελό-εις* 'rich in vines' from *ἀμπελο-ς*. *τιμή-εις* 'treasured, honoured' (Pamphyl. inser. *τιμᾶ-Feσα*) from *τιμή*. *χαρί-εις* 'graceful' from *χάρι-ς* acc. *χάρι-v*. *ύγί-εις* 'having growth, blooming' (cp. Osthoff, Morph. Unt. IV 180 ff.). Hom. *εύρώεις* no doubt meaning 'mouldy, musty' from *εύρώς* (post-Homerie gen. *εύρώ-τ-ος* etc.) 'mould'. *τελής* beside *τελήεις* (see below) 'having fulfilment, fulfilling itself', no doubt

for *τελεσ-*φεντ*-, from τέλος n. *κράεις* 'horned' (late) from *κέρας*. -ο-εις, proper to the derivatives from o-stems, became an independent suffix: *μητι-όεις* 'rich in wisdom' from *μητι-*, *ιχθυ-όεις* 'full of fish' from *ιχθυ-*, *ἡερ-όεις* 'cloudy' from *ἡήρ*, *υφ-όεις* 'snowy' from acc. *νίφ-α*, *κλωμακ-όεις* 'rocky' from *κλωμαξ*, *θυόεις* from *θύος* n.; this is found even where the word is derived from an a-stem: *σκιόεις* 'shady' from *σκιά*, *μηχανόεις* 'fertile in resource' from *μηχανή*. On the other hand from o-stems we find -η-εις as well as -ο-εις: *μεσσήεις* 'moderate' from *μέσσο-ν*, *φοινήεις* 'bloody' from *φοινός* 'bloody'. The same -η-εις occurs also in *θυήεις* beside *θυόεις*, *τελήεις* 'having fulfilment, fulfilling itself' beside *τελέεις*, *ἐλκήεις* 'full of wounds', from *ἐλκος* n., *ῥωπήεις* 'overgrown with underwood' from *ῥώψ*, etc. -ώ-εις is found in other words besides *εὐρώεις*; e. g. Hom. *κητώεις* 'full of hollows' (cp. *κητώδης* p. 409), *ὠτώεις* 'eared' (*ὠτ-*) and in late authors *πηλώεις* 'loamy, muddy' (*πηλό-*), *δενδρώεις* 'wooded' (*δένδρο-ν*).

Remark 2. It cannot be established that *φλειόαιο-* contains the α of the -*φατ*- (see p. 404) which we must assume as the weak form of the suffix (J. Schmidt, Kuhn's Ztschr. XXV 591). See Wackernagel *ibid.* XXVIII 130 f.

Italic. It is found only in the Latin compound suffix -*onsu-s*- *ōsu-s*, where the termination of forms containing o-stems became regular in all words. The suffix of Avest. *ašavasta-* from *aša-vant-* is exactly parallel; see p. 404 above. *verbōsu-s* from *verbu-m*, *officiōsu-s* from *officiu-m*; *fāmōsu-s* from *fāma*, *silvōsu-s* from *silva*; *piscōsu-s* from *pisci-s*; *aestuōsu-s* from *aestū-s*; *crīmīnōsu-s* from *crīmen*; *nivōsu-s* from *niz*, like Gr. *νιφ-όεις*.

VIII. The Suffix -d- (-ad-).

§ 128. In Sanskrit -*ad-* occurs a few times, in Greek -*ad-* and -*δ-* are found more frequently, in Latin there are a certain number of examples of -*d-* with a preceding vowel, and in Germanic we have denominative verbs in -*at-jan*, which seem to correspond to the Greek verbs in -*αζεν* (-ζ- = -δ-). Side by side with these forms in Greek, Italic, Germanic and Balto-

Slavonic we find other suffixes having *d* for their distinguishing consonant which appear to be connected with them (-do- may be related to -d- as -to- to -t-). Thus we may be justified in regarding this suffix as proethnic, although there are perhaps only two examples in which -d- appears in more than one branch of language: O.H.G. *gramizzōn* A.S. *gremettan*: Gr. *χρόμαδο-ς*, and O.H.G. *albig* O.Icel. *alpt*: O.C.Sl. *lebedŭ*.

Remark. We must not disregard the possibility that the -d- of this suffix may have come from -t- in the proethnic period, and that not only in the cases with *bh*-suffixes, such as Skr. *dyād-bhiṣ*. See I § 469, 7 p. 346. and cp. II § 130 Remark.

Aryan. There are only three certain instances, all in Sanskrit. *dyād-* f. 'rock, great stone, millstone', *bhasād-* f. 'back parts, pudenda muliebris', *śarād-* f. 'autumn'. Add *vanād-*, a doubtful word found in the Rig-Veda, meaning perhaps 'desire'.

Greek. Adjectives and (feminine) Substantives in -ad-: *φυγὰς* 'fleeing', *μηγὰς* 'mixed', *μαινὰς* 'raving', *μηκὰς* 'bleating', *τοκὰς* 'bearing, bringing forth', *νομὰς* 'pasturing', *γυμνὰς* 'naked, stripped for gymnastics, practised', *τεφρὰς* 'ash-coloured', *χοιρὰς* 'rising up, jutting out', *νιφὰς* 'snow-flake', *σιπλὰς* 'reef', *ἰλλὰς* 'cord, rope', *χολάδ-ες* 'entrails, intestines', *λαμπὰς* 'torch', *πηγὰς* 'rime, frozen earth', *γενειὰς* 'beard, hair of the beard', *πελειὰς* 'wild dove'. Stems ending in -ιδ- (fem.), the *i* of which in many words certainly comes from the *i*-stems: *ἔριδ-* (*ἔριδ-ος* etc.) 'strife' beside acc. *ἔρι-ν*, *κάλλιδ-* 'jug, vessel' (*κάλλιδ-ος* etc.) beside acc. *κάλλι-ν*, *ἱρι-ς* 'rainbow', *αὔλις* 'place for passing the night', *αἰγίς* 'stormcloud, shield of the gods', *ἀσπίς* 'shield', *γλυφίς* 'notch in the shaft of an arrow', *κερκίς* 'weaver's comb', *ἀκρίς* 'locust', *ἐπιγονίς* 'upper part of the thigh'. Connected with these δ-formations, and undoubtedly in great part derived from them, are a variety of elements of the nature of suffixes containing -δ-. Examples are *χρόμαδο-ς* (mentioned above), to which *κέλαδο-ς* 'noise, tumult' is parallel; *κόρυδο-ς* 'tufted lark', which in its formation comes very close to the cognate Germ. word **cherut-* 'stag' (Danielsson, Gramm. und etymol. Stud. I 31); patronymics like *Ἀκτοριδης* m. from

ἁλρογίς f.; adjectives in *-ώδης* such as *κητώδης* 'like a sea-monster' (for the *ω* cp. *κητώεις*), which have been incorrectly classed with the adjectives in *-ειδής*¹); and the numerous verbs in *-άζω* and *-ίζω* with a characteristic dental which were derived from these *δ*-nouns, such as *δινάζω*, *ρομίζω*.

Italic. There are a few examples in *-id-*, no doubt with *Idg. i*: Lat. *capis* (*-id-is*) f., Umbr. *kapife* 'capide', Osc. *καπίδιτωμ* i. e. *capid-i-to-m* 'ollarium'; Lat. *cassis* f., *cuspis* f., *lapis* m. Add *pecus* (*-ud-is*) f., *herēs* (*-ēd-is*) m. f., *mercēs* f., *palūs* (*-ūd-is*) f. Here too are found a variety of formative elements connected with this *d*-suffix: as in *or-dō -din-is* (beside *or-d-iōr*), cp. Gr. *μελεδών μελεδαίνω*, *capēdō frīgēdō rubēdō*, cp. Gr. *ἀχθηδών, χαιρηδών*. The *-do-* of such adjectives as *imbridu-s lācidu-s* however cannot be classed here, if they were originally compounds with *dō-* 'give' (as Skr. *jala-da-s* 'giving water' *artha-da-s* 'bringing benefit, generous') (Corssen, Krit. Beitr. 97 ff., Osthoff, Verb. in der Nominalcomp. 121 ff.; see also the evidence given by Thurneysen in his essay, *Über die Herkunft und Bildung der lat. Verba auf -io*, 1879, p. 13).

Old Irish. On account of the coincidence of *t* and *d* in unaccented syllables it is hard to say what Irish forms belong to this section. Yet it is clearly established that the adjectival suffix *-de* = **-dio-*, e. g. *conde* 'caninus' *talmande* 'terrestris', contains an original *-d-*, not *-t-*.

Germanic. The verbs in *-at-jan* should be first mentioned, as Goth. *lauhatjan* O.H.G. *lohazzen* 'to shine like lightning' *lougazzen* 'to burn like fire', Goth. *kāupatjan* 'to box the ears, cuff' (pret. *kāupasta*), *svōyatjan* 'to sigh', O.H.G. *blecchezzen* 'to flash', *roffezzen* 'eructare', *snepf ezzen* 'to sob'. The following words may also be referred to old *d*-stems: O.H.G. *gremizzi* 'provoked' beside *gramizzōn gremizzōn*, *einazzi*, dat. pl. *einazzēm* 'singulatiim'; O.H.G. *albig* m. O.Icel. *álpt* f. 'swan' (the Icelandic

1) The complete similarity between the usage of *-ειδής* and *-ώδης* only shews that even in antiquity the two terminations had been connected by popular etymology. I reserve a fuller discussion for another opportunity.

word still keeps the consonantal declension, see Noreen, *Alt. Gramm.* I § 327. 328): O.C.Sl. *lebedŭ* 'swan', O.H.G. *hiruz* A.S. *heorot* 'stag' (cp. E. Brate, *Bezenb. Beitr.* XI 184 f.); Goth. *stiviti* n. 'patience', O.H.G. *fiscizzi* 'fishery, fishing' and several other similar forms (von Bahder, *Verbalabstr.* 111 ff.).

Balto-Slavonic. There are no examples with *-d-*, only *-do-* *-di-* and the like; and it must be remembered that Balto-Slavonic *d* may also be referred to Idg. *dh*. Lith. *pa-klōda-s* *pa-klōdē* 'cloth for spreading underneath' from *pa-klōti* 'to spread out', and other examples. O.C.Sl. *vraĕida* 'enmity', *krioida* 'wrong', and other examples. *d* = pre-Balt.Slav. *d* seems to be certain only in *lebedŭ* 'swan' (see above).

IX. The Suffix *-k-* and *-q-*.

§ 129. In § 83—89 we assumed that a certain number of Greek, Italic, and Old Irish words in *-k-* had formerly been *-ko-* or *-qo-* stems, e. g. Gr. *ἀλώπηξ* (Skr. *lōpaśā-s*), *ὄρνυξ* (Skr. *vartaka-s*), *μεῖραξ* (Skr. *maryakā-s*) *ρεῖαξ* (O.C.Sl. *novakŭ*), Lat. *senex* (Skr. *sanakā-s*), *vertex*, *filix*, *bibax*, O.Ir. *aire* (Skr. *aryaka-s*). In these cases it is sometimes certain and sometimes very probable that there has been an attraction from the *o*-declension to the consonantal; but we find in the same languages other similar stems in *-k-* which cannot be explained with any degree of probability as derived from an original *-ko-* or *-qo-*. For Greek and Italic the reader may be referred to Leo Meyer's *Vergl. Gramm.* II 409 ff., 508 ff. In Old Irish, examples of this kind are *nathir*, gen. *nathrach*, 'water-snake', *lāir* 'mare', *fal* 'hedge' (Zeuss-Ebel Gr. C. 805 ff., Wh. Stokes, *Bezenberger's Beitr.* XI 84 ff. 155). In Aryan there is only one doubtful relic of these forms: *vipaś-* f. beside *vipaśā-* f. name of a river, which is referred to *vēpatē* 'is in trembling, whirling motion'.

This being the case, it may be assumed that *-k-* *-q-* once existed as suffixes parallel to *-ko-* *-qo-*, bearing much the same relation to them as *-t-* to *-to-*. And further the transition of such classes of forms as *ἀλώπηξ*, *ὄρνυξ*, *senex*, *aire* to the con-

sonantal inflexion may have been aided by the influence of such original *k*-stems.

X. The Suffix *-g-* (and *-ġ-?*)

§ 130. We find suffixes in *-g* in Aryan and Greek; but not one of the words containing them appears in both simultaneously. Thus it is not safe to assume this suffix for the parent language.

Remark. We must not overlook the possibility that *-g-* may have come from *-k-* in the protoethnic period, and that not only in the cases with *bh*-suffixes such as Skr. *uśtig-bhīṣ*. See I § 469, 7 p. 346. In the case of Gr. *λάταγ-* (*λάραξ*) 'drop, dregs': Lat. *latic-* (*latex*) it may be assumed that the Greek word originally had *k*, and passed over to the ordinary inflexion of *g*-stems simply through the influence of the form of the nom. sing. and of the loc. pl. (*-αξ -αξι*) (cp. gen. *δρυγος* § 86 p. 258 and gen. *δανάδος* § 123 p. 392); and many other instances are doubtful for the same reason. Cp. § 123 Rem. p. 403.

Aryan. Skr. *sanāj-* 'old' (beside *sanaká-s*), *dhṛśāj-* 'bold', *tṛṣṇāj-* 'thirsty' (beside *tṛṣṇā-* 'thirst'), *uśij-* 'longing, desirous', *vanij-* 'merchant', *bhurij-* 'arm'. Forms like instr. pl. *uśtig-bhīṣ* point to *-j-* = Idg. *-g-*.

Greek. *ῥοπαῖς*, gen. *ῥοπαγος* 'robbing, rapacious', whence *ῥοπάζω* (the *a* of Lat. *rapāc-* shews that it is quite a different word). *γόρυξ* (*-γυ-*) 'throat, gullet'. *πέρυξ* (*-γυ-*) 'wing, pinion'. *μάστιξ* (*-ιγ-*) 'scourge, lash'. The parallel forms *-αγγ- γγγ- ιγγ-* are more frequent; these may possibly have arisen from an original formation in which a nasal followed the *γ*-suffix (cp. I § 221 p. 188 ff.), e. g. *φάλαγξ* 'phalanx', *φάραγξ* 'steep rock, gorge', *λάρυγξ* 'larynx' (similarly *φάρυγξ* is found later for *φάρυξ*), *στόρυγξ* 'tooth, prong, point', *σάλπιγξ* 'trumpet', *οιμῶδιγξ* 'weal, swelling'.

XI. Suffixes in *-s*¹⁾.

§ 131. The Suffix *-es*²⁾. The nouns formed with this suffix in the parent language were partly neuter substantives (generally

1) The Author, Zur Geschichte der Nominalsuffixe *-as-*, *-jas-* und *-cas-*, Kuhn's Ztschr. XXIV 1 ff. D'Arbois de Jubainville, Les thèmes celtiques en *s*, Mém. de la Soc. de lingu. II 327 ff.

2) Th. Aufrecht, Bildungen auf *nus*, *roc nus*, Kuhn's Ztschr. II 147 ff. A. Goebel, Das Suffix *es* in seinem Verhältnisse zum Suffix

abstract), with which were associated adjectives like Skr. *yāśis-* 'glorious, majestic' Gr. *ψευδής* 'deceitful', and partly masculine or feminine substantives, e. g. nom. Skr. *uśās* Gr. *ἠώς* 'dawn'. These two groups bear very much the same relation to one another as the group of neuter and the group of masculine and feminine *-men-*stems, e. g. Gr. *χεῖμα* : *χειμὼν* § 117 p. 365 ff.: we sometimes find *-es-*stems, as we found *-men-*stems, which seem to have had both forms of inflexion from the earliest times: e. g. Skr. *tūpas-* n. 'warmth': Lat. *tepor* m., Lat. *tenus* n. Gr. *τέρος* n. 'bond': Lat. *tenor* m. At the time of the separation of the languages the neuter forms greatly preponderated. We may begin with these, and the vowel-gradation of the stems will be separately discussed under each of the two classes.

§ 132. 1. Neuter Substantives in *-es-* and the adjectives connected with them.

From the protoethnic period onwards *-es-* is regular in all cases of the substantives except the nom. sing., which had *-os*, and in the adjectives also except in the nom. sing., whose ending in the masc. was *-ēs*, in the neut. *-es*. The vocalism of the root-syllable is almost without exception that of the strong grade (the *e*-grade in the *e*-series), and takes the accent in substantives, while in adjectives it falls on the formative suffix. E. g. Gr. *ψεῦδος* gen. *ψεύδους* etc. *μένος* gen. *μένους* etc. beside *ψευδής* *ψευδές* gen. *ψευδέος* etc. *δυσμενής* *-μενής* gen. *-μενέος* etc.

This double system of declension in the substantives and adjectives was no doubt developed out of a single one. The abstract substantive, denoting a quality, when it was used simply for the owner of that quality, formed a nom. sing. with the mark of masculine or feminine gender in the same way as nouns like Gr. *ποιμήν* *πατήρ*; so also, with a similar indication of gender, an acc. sing. *-és-ηι*, nom. pl. *-és-es*; and the different accent connected with the new meaning caused a differentiation

es oder die Neutra in *ος*, *ibid.* XI 53 ff. H. Ebel, Neutra auf *-os* im Altirischen, Kuhn-Schleicher's Beitr. VI 222 ff. Wh. Stokes, Irish neuter stems in *s*, Kuhn's Ztschr. XXVIII 291 ff. H. Ebel, Suffix *-os* im Gothischen, *ibid.* V 355 ff.

of accent in the other cases corresponding to the new function of the word. There is evidence however that amongst the cases of the neuter substantive there once were also forms with *-és-*; this is shewn by the datives like Skr. *dōhás-ē* 'to milk', which are used as infinitives. There must also have been cases where the suffix was simply *-s-* (the weak-grade form), namely, those in which the case-suffix bore the accent: compare Skr. *śīrṣ-ā-m* 'head' Gr. *κόρη* 'temple, forehead' beside Skr. *śīras* 'head' (I § 306 p. 242), Skr. *ā-s-a-s ā-s-a-m* Gr. *ᾠμο-ς* for **ōu-σ-o-ς* Goth. *am-s-a m.* 'shoulder' beside Lat. *um-er-u-s*, Skr. *vats-ā-s* 'year, calf' beside Gr. *féros* n. 'year', Skr. *ōṣa-dhī-* f. 'medicinal herb' for **ay-s-a-* beside *āvas* 'help, comfort', *man-dhātār-* 'thoughtful, devout person' for **manz-dhātar-* beside *mānas* 'thought', Lith. *tams-à* beside Skr. *tāmas* 'darkness', Lat. *farr-* for **fars-* beside Goth. *bariz-ein-s* 'of barley' (I § 571 p. 429) and many similar examples (The Author, Kuhn's *Ztschr.* XXIV 10 f., J. Schmidt, *ibid.* XXV 26, Danielsson, Pauli's *Altital. Stud.* III 192)¹). Finally we must observe the frequency of the instances in which the root-syllable shows the weak grade; e. g. Skr. *śīr-as* beside Lat. *cerebru-m* for **ceres-ro-m* Gr. *λίπος* 'fat' beside Skr. *rēpas* 'spot, stain', Gr. *νάθος* beside *νήθος*, Gr. *ἄγος* 'guilt' beside Skr. *āgas* 'sin', Goth. *ga-digis* 'structure, work' beside Gr. *τείχος* 'wall', Gr. *νός* 'pus', Skr. *duv-ās-* 'eagerly striving' and the like (Osthoff, *Morph. Unt.* IV 182 f.). We may then reconstruct the paradigm of these neuters as follows: nom. acc. **kér-os* 'head', gen. *kṛ-s-és* (or *-ós*), dat. **kṛ-s-āi*, loc. **kṛr-és -és-i*; nom. acc. **ā-gos* 'sin, guilt' (Skr. *āgas*), gen. **aq-s-és* (or *-ós*), dat. **aq-s-āi*, loc. **aq-és -és-i* (cp. Gr. *ἄγος ἄγτος*). The dat. **-és-āi* (cp. Skr. inf. *bhiy-ās-ē jiv-ās-ē* etc.) was then formed on the model of the loc. *-és -és-i*. In most instances however, and even in the parent language, the nom. acc. (**kéros*) gave the type for the position of the accent and the form of the root in all the cases. With regard to the adjectives we must further observe that the accentuation of the

¹) Cp. also Lat. *max-imu-s* beside Skr. *mahá-s* 'great' and Umbr. Osc. Celt. **neks-* in *nesimo- nessam* § 73 Rem. p. 179 f.

'light, clearness, brightness' O.Pers. *rauc-a* 'day', Skr. *sva-rōcus* 'shining of itself', *√ leug-*. Skr. *ōj-as* Avest. *aoj-ō* 'strength': Gr. *ἐπι-αυγής* etc.; see above, p. 414. Skr. *vār-as* 'width' beside *ūr-as* 'breast': Gr. *εὐ-ος* 'breadth', like *ἐὐ-ος*; see § 104 p. 314. Skr. *kār-as* 'deed', *jār-as* 'age', *pēś-as* 'form', *jāv-as* and *jūv-as* 'swiftness'. Avest. *tac-ō* 'course', *draj-ō* 'length', *haec-ō* 'dryness'.

Examples of the dative used as an infinitive; pr. Ar. **-as-ai*. Skr. Ved. *dōhāsē* 'to milk' (*dōh-as* n. milking'), *bhārasē* 'to bear', *spārasē* 'to obtain'. Avest. *avanhē* 'to help' (*av-ō* n. 'help, protection') and by an extended analogy *vaocanhē* inf. to the indic. aor. *vaoc-a-p* from *vac-* 'to speak', *srāvayanhē* inf. to the indic. *srāv-ayēti* caus. 'causes to hear, announces'.

Ar. *-n-as, -t-as*. Skr. *rēk-ṇas* 'riches', Avest. *raex-nō* ('gladness'?), see above p. 415. Skr. *ē-nas* 'oppression, wickedness, sin', Avest. *aē-nō* 'enmity, hate, vengeance'. Skr. *āp-nas* 'possession', *ār-ṇas* 'wave'. Avest. *zaē-nō* 'readiness, watchfulness, guard', *xwar-nō* 'brightness, glory', *raf-nō* 'joy, happiness'. Skr. *dráviṇas* 'property'. Skr. *srō-tas* O.Pers. *rau-ta* 'river' (I § 558, 3 p. 414). Skr. *rē-tas* 'seed'. Avest. *vī-sas-tō* 'obedience, learning', *parš-tō* 'fight, weapon for fighting'. Ar. *-u-as* is found in Skr. *pāvas*, see p. 415.

In Adjectives. Skr. *tarás-* 'eagerly striving' beside *táras* 'eager striving', *apás-* 'active' beside *āpas* 'work', *rakṣás-* 'injuring, injurer' beside *rákṣas* 'injury', *tavás-* 'strong'. Avest. *dvaēšah-* (nom. sing. *dvaēšā*) 'tormenting, tormentor' beside *dvaēšō* 'torment', *rādah-* 'giving, giver' beside *radō* 'gift', *xwar-nah-* 'bright, glorious' beside *xwar-nō* 'brightness, glory', *aēnah-* 'hostile, enemy' beside *aēnō* 'enmity'. Skr. *dur-manas-* 'out of humour' Avest. *duš-manah-* 'ill-disposed', Skr. *su-mānas-* Avest. *hu-manah-* 'well disposed', Skr. *nṛ-mānas-* Avest. *nar-manah-* 'with a manly mind, heroic'. Skr. *su-cētas-* 'having a good disposition, wishing well', *puru-bhōjas-* 'nourishing many'. Avest. *duē-varšnah-* 'evildoer', *aui-aojah-* 'surpassing in strength, subduing victoriously', O.Pers. *aspa-canah-* proper name (no doubt to be compared with Skr. *cānas-* n. 'pleasure'). — Skr. *vēdhás-* 'helping, gracious', Avest. *aša-vazdah-* proper name, and *vohvazdah-* i. e. *vohu-vazdah-*

proper name, ground-form **uedh* + *tes-*, √*uedh-* 'lead', Skr. *su-mēdhās-* 'intelligent', ground-form **mydh* + *tes-*, see I § 482 p. 356.

Armenian. Here the *es*-stems have been lost. A part of them became *o*-stems, as *sar*, gen. *suroy*, 'height, peak, declivity': Skr. *śiras-* Avest. *sarah-* 'head', common ground-form **h̥yr-es-*.

Greek. *πέος* 'membrum virile' for **πεσ-ος*: Skr. *pās-as* the same. *ἔτ-ος* *ἔτ-ος* 'year': Lat. *vetus* (originally a subst.), Skr. *outs-á-*, see p. 413 above. *θέρ-ος* 'heat, summer': Skr. *hár-as* 'glow, heat'. *τέν-ος* 'sinew, bond': Skr. *tán-as* 'offspring', Lat. *ten-us*. *ζεύγ-ος* 'yoke': Lat. *jūgera jūgeribus*, cp. also Mid.H.G. *jiuch* n. 'measure of land'. *βέλ-ος* 'missile', *ἔγχ-ος* 'spear', *ἐκκ-ος* 'enclosure', *κεῖθ-ος* 'hidden depth', *δέος* 'fear' for **δφεκ-ος*, *θέρσ-ος* (Aeol.) and *θράσ-ος* *θάρσ-ος* 'courage', *κρέτ-ος* (Aeol.) and *κράτ-ος* *κάστ-ος* 'strength', *πένθ-ος* 'woe, sorrow' and *πάθ-ος* 'suffering, experience, misfortune'. *ὄχ-ος* 'vehicle' instead of *ἔχ-ος* (which is preserved in Hesych.) through the influence of *ὁ ὄχος*, √*uegh-*; cp. Lat. *modes-tu-s* p. 418, O.H.G. *fahs* p. 420. *μήκ-ος* 'length'. *ἡδ-ος* 'pleasure'. *αἶθ-ος* 'brand': Skr. *ēdh-as*, see p. 414 above. *ἄγκ-ος* 'valley, ravine': Skr. *āṅk-as* 'bend, curve'. *σάκ-ος* 'shield'. *ψυχ-ος* 'cold'. *κῦδ-ος* 'glory'. *ρίγ-ος* 'frost': Lat. *frīg-us*.

πίος 'fat' for **πῑ-φ-ος*: Skr. *pīvas*, see above, p. 415. *ἔλπος* 'wool' for **φελ-φος*, cp. Lat. *vervex* ('laniger'). *ἔρ-ος* 'sprout, twig'. *ἔθ-ος* 'multitude, race'. *γλῆ-ρος* 'show, marvel'. *δά-ρος* 'gift, loan', √*dō-* (cp. § 66 p. 142 f.). *τέμενος* 'piece of land'. *πάχετος* 'thickness'. *ἔδαφος* 'ground, foundation'. *κάλλος* 'beauty'.

πενθής 'deceitful, lying' beside *ψεῦδος*. *σαφής* 'clear, plain'. *ἀσθενής* 'weak' beside *σθένος*. *εὖ-μενής* 'well-disposed' beside *μένος*. *ἀπειθής* 'unaware, uninvestigated': Avest. *baodāh-* n. 'consciousness, knowledge'. *ἀληθής* 'unconcealed, true' beside Dor. *lāthos* 'forgetfulness'. *δυσ-χερής* 'hard to deal with': Skr. *hāras* 'grip'; we should also add *χείρ* 'hand' if Wackernagel is right in referring *χεῖρ-* to **χερσ-* (Kuhn's Ztschr. XXIX 131 ff.); the gen. **χερσ-ός* would then be explained in the same way as Lat. *furr-* p. 413. — *πλή-ρης* 'full' side by side with *πλη-ρόω* 'I fill' Lat. *plē-ru-s*.

Italic. Lat. *op-os op-us op-er-is, op-er-a*, Umbr. *ose* 'opere' *osatu* 'operato', Osc. *úpsannam* 'operandam' (I § 633 p. 474): Skr. *áp-as áp-as*, see above p. 414. Lat. *vet-us vet-er-is* ('agedness, or being stricken in years; old creature', hence as an adj.) 'old', *vetus-tu-s*, Osc. *Vezkei* dat., name of a god, '*Vetusco' (cp. *vetusculu-s*): Gr. *φέρ-ος*. Pr. Ital. **med-os* 'measure' (Gr. *μέδ-μετρος*, Goth. *mit-un*): Lat. *modes-tu-s moder-ārī* (the *o* instead of *e* is due to *mod-u-s*), Umbr. *meř-s mers* 'ius, fas' for **med(o)s*, the *o* being lost by syncope, see I § 633 p. 474. Umbr. *vas* 'vitium' for **vak(o)s*, beside Lat. *vacāre*. Lat. *aes*, gen. *aer-is*, which can hardly stand for **ai-es-*, but for **ais-*, the weak form of the stem¹⁾ (the nom. acc. *aes* instead of orig. **a(i)-os* was formed on the analogy of the other cases), *aēnus* Umbr. *ahesnes* 'aēnis' for **aiēs-no-* (I § 134 p. 121): Skr. *áy-as* 'metal, iron', Goth. *áis* (gen. *áizis*) 'ore, money'.

Lat. *nem-us (-or-)*: Gr. *νέμ-ος* 'place of pasture'. *dec-us (-or-)*: Skr. *daśas-yá-ti* 'he honours, is at the service of, is obliging'. *Ven-us (-er-)*, originally n. 'love's enticement': Skr. *ván-as-* 'charm, sweetness'. *scel-us (-er-)*. *temp-us (-or-)*. *terg-us (-or-)*: Gr. *στέργ-ος τέργ-ος* 'leather, skin', esp. 'the hard hide on an animal's back', *corp-us (-or-)*. *pondus* and *foedus*, like *modes-tu-s*, have exchanged their *e* for *o* (**pend-os *feid-os*, the latter still appearing in *fīdus-tu-s*), through the influence of parallel stems in *-o-* (abl. *pondō*), cp. Gr. *ὄχος* above, p. 417. O.H.G. *fahs* p. 420.

Lat. infin. in *-er-e* for **es-i* (loc.), as *vivere* (Skr. *jīvás-ē*). *agere, minuere; ferre velle esse* are discussed in § 162. *fieri* is a new formation for (O.Lat.) *fiere*, modelled on *agī, sequī*, see ib.

vol-nus, mā-nus, fū-nus, pīg-nus, facinus; mi-nus must also be classed here; see § 135. *pectus*.

The vowel-gradation which belonged to the *-es-suffix* in the pre-Italic period (preserved e. g. in *gen-us -er-is*) was superseded in many words in favour of the form *-os-* which prevailed over the other forms. This is seen in *tempus -oris* etc.; yet

1) See Osthoff in Paul-Braune's Beitr. XIII 405.

we have also *-es-* in the adverb *temper-ī*, *tempes-tu-s*, and *temper-are*. Similarly we have *penus -oris* etc., whilst the loc. sing. *penes* (cp. αἰές), which had become a preposition (or postposition), retained the form *-es-*. *-os-* is also found in derivatives, e. g. *rōbus-tu-s* (gen. *rōbor-is*) *onus-tu-s* (gen. *oner-is*), *corpus-culu-m* (gen. *corpor-is*) *opus-culu-m* (gen. *oper-is*) cp. O.C.Sl. *-os-tŭ* p. 422.

Adj. *pūbēs* and *pūber*, gen. *pūberis*. Further *dē-gener*, *bi-corpor*, both of them probably fairly modern formations having no direct connexion with the original Indo-Germanic type. Similarly the use of *vetus* (also *veter*) as an adjective was of recent date; cp. *vetus-tu-s* like *onus-tu-s*, *veter-ātu-s* like *sceler-ātu-s*. Here we have a repetition of the process by which adjectives of this kind were formed in the original language.

Old Irish. *tech teg*, gen. *tige*, 'house': Gr. στεῖγ-ος τέγ-ος 'roof, house'. *nem* 'heaven', which we may either compare at once with Skr. *nám-as* 'obeisance, reverence', so that the original sense was 'object of reverence', or suppose to stand for **neb-os* = Skr. *nábh-as* O.C.Sl. *neb-o*, its form having been influenced by words containing the $\sqrt{nem-}$ like Gall. νεμεριον Ir. *nemed* 'sacred thing or place'. *leth* 'side': Skr. *práthas* etc., see above p. 415. *au* δ (Mid.Ir.), gen. *aue*, 'ear': O.C.Sl. *ucho* 'ear'; should we add Gr. οὐς Dor. ὠς 'ear'? (see § 114 p. 347). *mag* 'level tract of country', Gall. Οὐινδό-μαγος = O.Ir. *Find-mag*. *lōg luach* 'price, hire'.

With *-nes-*: *dū-n* 'stronghold'; even as early as in Gallic we have *Αουγν-δουρος* beside *Αουγν-δουρον*. *glū-n* 'knee'.

In Germanic the old inflexion suffered great changes.

The transference of these nouns to the *o*-declension, which appears so frequently in Gothic and Norse, seems to have taken place in protoethnic Germanic, and to have been partly due to the analogy of forms like Skr. *vats-á-* (beside Gr. *φέτος*), p. 413. Goth. *áis* (gen. *áizis*) O.H.G. *ēr n.* 'ore' pr. Germ. **aiz-a-* (Goth. *áiza-smīpa* O.H.G. *ēr-smid*, § 40 p. 73): Skr. *áy-as* etc., see p. 418 above. O.H.G. *lefs m.* 'lip' beside A. S. *lippa m.* 'lip' (cp. I § 337 p. 267 f.) for pre-Germ. **lebes- *leps-*. Goth. *uhs*

(gen. *ahsis*) O.Icel. *ax* n. O.H.G. *ahir ehir* n. 'ear of corn': Lat. *ac-us*. O.H.G. *fahs* O.Icel. *fax* m. 'hair', no doubt due to contamination of a form **pek-os* n. with **pok-o-s* m. (Gr. *πόκο-ς*) (cp. Gr. *πόκο*, p. 417, Lat. *modestu-s* p. 418). Goth. *veihs* (gen. *veihsis*) n. 'borough, vicus': cp. Skr. *vēśās-* m. 'neighbour, vassal'. Goth. *peihs* (gen. *peihsis*) n. 'time' beside *peihan* 'to thrive, grow', √ *tem-* (I § 214 p. 181); it is usual to compare Lat. *tempus*, but I cannot think it proved that Lat. *p* is ever = Idg. *q*. Goth. *plahs-jan* 'to fear', a denominative: Lat. *locusta* for **tlocus-tā* (Osthoff, Paul-Braune's Beitr. XIII 412 f.). Goth. *rimis* (gen. *-isis*) n. 'rest', √ *rem-*. Goth. *agis* (gen. *-isis*) n. 'fear', O.H.G. *egis-lth* 'terrible' *egis-o* m. (A.S. *eȝes-a* m.) 'fear' *egisōn* 'to terrify': Gr. *ἄχος* 'pain at heart, grief'. Goth. *sigis* n. O.Icel. *sigr* (gen. *sigrs*) m. A.S. *sigor* m. 'victory' O.H.G. *sigir-ōn* 'to conquer', Goth. *sigis-lāun* § 40 p. 73: Skr. *sāhas*; see above, p. 415. Goth. *hatis* (gen. *-izis*) n. O.Icel. *hatr* n. 'hate', Goth. *hatizōn* 'to hate'. Goth. *riqis* (gen. *-izis*) n. O.Icel. *rökkr* n. 'darkness': Skr. *rājas* etc., see above p. 414. Goth. *ga-digis* n. 'building, work': Gr. *τείχος* 'wall', with vowel-gradation in the root-syllable (p. 413). Goth. *bariz-ein-s* adj. 'of barley' O.Icel. *barr* n. 'barley': Lat. *farr-* for **far-s-*; see above, p. 413. Goth. *skāpis* n. 'harm', O.Icel. *setr* (gen. *setrs*) n. 'seat': Skr. *sād-as* etc., see p. 414 above.

No satisfactory explanation has been given of the variation between *-s-* and *-z-*, as Goth. gen. *agis-is* beside *riqiz-is*, Goth. *valvis-ōn* 'to roll oneself, wallow' O.H.G. *egis-ōn* beside Goth. *hatiz-ōn* O.H.G. *sigir-ōn*.

Remark 1. Possibly it may be connected with the fact that in certain isolated uses some of the cases retained *-is-*, e. g. in the Skr. inf. in *-ds-ē* (p. 413). Furthermore side by side with the neuter substantives there may have been adjectives with the accent upon the formative suffix, say **aȝés-* 'fearing' beside **áȝes-* 'fear', like Gr. *ψευδής* beside *ψευδος*, and the *-s-* may have been taken from them; compare further § 133 Rem. p. 424. Lastly in certain instances where the word was used as the first member of compound, *-s-* may have remained regularly voiceless even when the suffix *-es-* was unaccented. See von Bahder, Verbalabstr. 55.

In West-Germanic we find beside this another entirely different modification of the original declension, due to the

syncope in final syllables. After a long root-syllable, the nom. acc. *-oz* was dropped (I § 661, 2 p. 517). This loss coupled with the influence of the *o*-declension, first established a paradigm such as O.H.G. sing. nom. acc. *kalb* (calf) gen. *kalbires* dat. *kalbire*, pl. nom. acc. *kalbir* gen. *kalbiro* dat. *kalbirum*. Then in the gen. dat. sing. *-ir-* was dropped, *kalbes kalbe* being formed on the analogy of *wortes worte* from nom. *wort*; hence *-ir-* naturally became the mark of the plural, especially in the nom. and acc. which had no other distinguishing sign. (A more remote consequence was that *-ir-*, Mid.H.G. Mod.H.G. *-er-*, was used for the sign of the plural in a multitude of words with which it had originally no connexion whatever). In the oldest period of West-Germanic this style of inflexion (*kalb* gen. *kalbes*, pl. *kalbir*) is commonest in animal names; cp. besides *kalb* e. g. O.H.G. *lamb* (A.S. *lomb*) 'lamb', and outside of this category *ei* 'egg' pl. *eigir* (A.S. *ǣg* pl. *ǣgry*), *vis* 'sprout, twig', and other forms. Compare the use of these words as the initial members of compounds, § 40 p. 73. Other words however, through the same phonetic change in the form of the nom. acc. sing., entirely lost their *ir*-inflexion, e. g. O.H.G. *mast* n. 'mast, food, fattening': Skr. *méd-as* n. 'fat' (I § 591 p. 447 f.).

Remark 2. Certain substantives which follow the *i-* and the *u-* declension have also been regarded as representing original *-es*-stems; as O.H.G. *sigi* A.S. *size* m. 'victory', O.Sax. *heti* A.S. *hete* m. 'hate' A.S. *ege* m. 'fear', A.S. *sife* n. 'sieve' and O.H.G. *sign* *sigo* m. = *sigi*, *situ* *sito* m. 'custom' (Gr. *ἱσοῦς*). The nom. *sigi* is said to stand for **sigiz*, *-os -az* having been replaced by *-es -iz* because of the other cases, and the analogy of the m. f. *i*-stems having then come into play. This transference must have been complete before the beginning of the Christian era; for the *i*-stem appears in Strabo's *Σεγλ-μηρος* (cp. *Segi-mēru-s Segi-mundu-s* in Tacitus, O.H.G. *sigi-nomo*). But I can see no satisfactory reason for the displacement of *-az* by *-iz* in these words and these only, and it seems more reasonable to assume that they are original *i*-stems; in fact we have such parallel forms as Skr. *van-i-ṣ* beside *vān-as*. It is perhaps less improbable that *-os* under certain conditions should have become *-uz* in protothnic Germanic, whence the form *sign* (cp. O.H.G. *angust* § 101 p. 307); see Paul in his and Braune's Beitr. VI 187, and Bremer ibid. XI 3, who remarks: 'I see in *-uz* the representative of an Idg. sonant *s* (*z*), a subject which I hope to discuss in a systematic form at some future time'.

-nes- -tes-: O.H.G. *lēhan* n. 'loan', see above p. 415; A.S. *hrō-đor* n. beside *hrē-đ* (m.?) 'glory'. Cp. also A.S. *hæl* O.Icel. *heill* n. 'favourable omen, happiness' for **hailiz-* beside the adj. Goth. *hái-l-s* 'healthy' (§ 76 p. 206), A.S. *hlæw* n. 'grave-mound' for **hlainwiz-* beside Goth. *hlái-v* 'grave-mound' ground-form **kloi-uo-* (§ 64 p. 137) and the like.

Adjectives like Gr. *πενδής δισ-μενής* do not seem to occur. It is a question whether they can be inferred from the appearance of *-s-* side by side with *-z-* in the oblique cases of the substantives and in derivatives. See Rem. 1 p. 420 above. O.H.G. *mast* 'mast, food' has also a secondary use as adj. 'fattened'.

Balto-Slavonic. Here we find only Substantives. In Lithuanian they have become masc. or fem. *i-* or *io-* stems: *-es-i-* and *-es-ia-*.

Lith. *debes-i-s* m. and f. 'cloud' (but we have the consonantal stem preserved in the gen. pl. *debes-ū*) O.C.Sl. *nebo* 'heaven': Skr. *nābh-as* etc.; see above, p. 414.

Lith. *ėdes-i-s*, gen. *-io*, m. 'food (for animals)': cp. Lat. *eder-e*. *kalbes-i-s*, gen. *-io*, m. 'phrase, proverb', beside which we have *kalbes-ė* f. 'speech'. Gen. *mėnes-io* and *mėnes-ės* 'of a month'; see above, p. 415. The original *-es-* is also seen in *kalbes-ni-s* 'talk', *mōkes-ti-s* 'payment' and the like: see § 101 p. 307.

O.C.Sl. *slov-o* 'word': Skr. *śrāv-as* etc., see above p. 414. *uch-o* 'ear': Mid.Ir. *an*; see above, p. 419. *ok-o* 'eye'. *tělo* 'body'. Gen. *ličes-e* 'of the face'; the nom. sing. **liko*, is wanting, its place being taken by *lice*. In consequence of their similar termination in the nom. acc. sing. *es-* stems were often inflected like neuter *o-* stems; e. g. gen. *slova* instead of *sloves-e*. On the other hand some of the Slavonic *es-* stems were perhaps *o-* stems originally, and became *es-* stems only because of this same similarity of form, e. g. *drěv-o* 'tree', *dělo* 'work'. The suffix *-as-* is no doubt also to be traced in abstract nouns like *azos-ti* 'strait', cp. Lat. *angus-tu-s*; see § 101 p. 307.

§ 133. 2. Substantives, masculine and feminine, with the suffix in the form *-os-*. Side by side with the neuters in *-os-* there existed in the original language a certain number of masculine and feminine substantives with *-os-* in the strong cases, *-ōs* in the nom. sing., *-es -es-i* in the loc. sing., and *-s-* in the weakest cases. It is only in Italic that this formation is at all fertile; and there the *ō* of the nom. sing. was carried through all the cases. The masculine or feminine form and the neuter form often appeared side by side, as Lat. *decor*: *decus* (cp. p. 411 f.).

Skr. *uṣ-ās-* f. Gr. ἡώς f. (for **aus-ōs*)¹⁾ Lat. *aur-ōr-a* 'dawn'. The acc. sing. was originally **-os-ηι*: Skr. *uṣās-am* Avest. *uṣānah-em*, Gr. ἡῶ for **ἡόα*; Skr. *uṣās-am* and *uṣām* were re-formations, the latter modelled on the nom. *uṣās*. Loc. *-es-i*: Skr. *uṣās-i*; Gr. ἡοῖ was a re-formation. Gen. Skr. Ved. *uṣās* instead of **uṣ-š-ās*, instead of which we find later *uṣās-as*, and a similar re-formation in Greek, ἡοῦς i. e. **ἡόος*. Does the accent of the Att. *ἔως* (acc. *ἑω*) indicate that the original accent was **āusōs*?

**aiuos- *aiues- *aius-* (cp. **aiuen- *aiun-* § 116 p. 362 f.): Gr. acc. αἰῶ, a by-form of αἰῶνα, for **aiśōa*, loc. αἰέ adv. 'always'; the weakest form of the stem is found in Sanskrit only as a neuter noun, *ayus-* 'life'. Cp. also Ir. *ais aes* m. 'age' Mod.Cymr. *oes* § 108 p. 329.

Gr. αἰδώς f. 'shame, modesty', acc. αἰδῶ, and parallel to it αἰδέσ-, in αἰδέσθαι fut. αἰδέσσομαι and αἰν-αἰδές.

Latin. Masculines. *decor* beside *decus* Skr. *daśas-yá-ti* 'honours, is at the service of'; *tenor* beside *tenus* Skr. *tánas* 'offspring' Gr. τέρας 'sinew, bond'; *angor* beside *angus-tu-s anx-iu-s* Skr. *āhas* 'distress'; *tepor* beside Skr. *tūpas* 'heat' and many other similar words. *honōs honor* (*hones-tu-s*), *sūdor*, *ador*, *amor* etc. Compare also *rūmi-ficō* beside *rūmor* § 34 p. 60. In the nom. sing. *-ōr (-or)* took the place of *-ōs* on the analogy of the other cases, where *-r-* regularly represented *-s-* between vowels

1) ἡώς proves that the law of vowel-shortening discussed in I § 611 p. 461 did not come into operation until after the loss of intervocalic *o*.

(I § 569 Rem. 2 p. 426 f.). *aurōr-a* (see above), like *Flōr-a* beside *flōs*, cp. § 60 p. 110.

Remark. It is possible that all these nouns, excepting the word for 'dawn', were originally masculine; if so they kept their original gender in Latin, whilst Gr. *αἶδω* became feminine, in the same way as the *s*-stems (§ 108 p. 323, 327).

It is uncertain how we ought to regard the Sanskrit masculine abstract substantives *jāts-* 'weakness of age' *bhīds-* 'fear' *lavās-* 'strength'. They belong to this section if their acc. in *-āsam* is a re-formation like *uśāsam*. Further: were such Latin substantives as *sēdēs mōlēs plēbēs pūbēs* really, as is usually assumed, originally *s*-stems? Possibly we should assume a double class of masculine and feminine substantives in the parent language, corresponding to the two classes appearing e. g. in Greek, *ἀσ-μῶν* contrasted with *ποι-μῶν*, *δα-ρῶν* contrasted with *δο-ρῶν*, distinguished by a difference of accent and of vocalism in the suffix. The accent of *ἡμῶν* *αἰμῶν* would then have been shifted just as that of the forms in *-ων* *-ωνων*. Adjectives like Gr. *γενεός* (§ 132 p. 412 f.) would then bear a nearer relation to these m. and f. substantives in *-ēs* than to the neuters in *-os*.

§ 134. The Suffix *-s-* (*-a-s-*, *-i-s-*, *-u-s-*).

Side by side with the nouns formed with *-es-* (*-os-*), which have been discussed in §§ 131—133, we find nouns which have the same *s*-sound in the suffix, but which cannot be shewn with certainty to have ever had an *e* (*o*) before the *s*. And we must remember that although *-es-* was certainly used as a single and independent suffix at the time of the dissolution of the proethnic community, it may nevertheless have arisen from the fusion of two distinct elements (*-e-s-*, or rather perhaps as in **gene-s-*, see p. 20).

The nouns here to be discussed may be arranged in four groups.

1. Skr. *bhās-* n. 'light, brilliancy' (nom. acc. *bhās* instr. *bhāsā*), Lat. *fas* n. (indecl.) originally 'utterance', √ *bhā-* (Bloomfield, Amer. Journ. of Phil. IX 19 compares Att. *φῶς* with Skr. *bhās*). Ar. **das-* 'gift' in Skr. *dās-vant-* 'rich in gifts' *su-dās-* 'giving richly' (acc. *-dās-am-* gen. *-dās-as-*) Avest. *varəhu-dān-* 'giving good' (acc. *-dānəm-* gen. *-dānō-*), √ *dō-*. Skr. *jñāts-* m. 'relative', cp. *jñā-ti-*ṣ. Lat. *flōs flōr-is*, *Flōr-a* Osc. *Fluusaī* dat. Lat. *spēr-are* O.Lat. pl. *spēr-r-ēs* *spēr-r-ibus* beside *spēr-s*. Should we class here the Greek **χαός* **χαράς* in *χαῖαρ* *χαρίαρ*

'head' (for **κροῶν-υ-* **καροῶν-υ-*, cp. § 114 p. 347)? There is nothing to prevent our comparing with these words Skr. *mās-* 'moon, month' O.C.Sl. *mēs-ecŭ* 'month' from *✓mē-* 'measure', see § 132 p. 415.

In these words it is possible that the *e* of -es- has been contracted with the preceding vowel, so that **dōs-*: **bheres-* = **dōno-m*: **bhereno-m*, see § 65 p. 138. In this case we might regard the Sanskrit stems *dravind-dās-* 'giving riches' *vayō-dhās-* 'bestowing life-power' *candrā-mas-* 'moon' (see Lanman, Noun-Infl. p. 555 f.) as the direct representatives of an original formation, and analysing them as **-d-es-* **-dh-es-* **-m-es-*. **-d-es-*: **dōs-* = Gr. *λίπ-ος*: Skr. *rēp-as* and the like; see § 132 p. 415. Lat. *vī-r-ē-s* beside *vī-s* *vi-m* cannot have suffered this contraction; but it is perfectly easy to assume that the *s*-inflexion in this word may be due merely to the analogy of older types.

2. -s-. Skr. *kraviṣ-* n. 'raw flesh', Gr. *κρέας* n. 'flesh', cp. Lat. *cruor*. Gr. *κέρας* 'horn' beside Skr. *śiras-* 'head' (originally 'prominent point'); Lat. *cere-brum* may contain either **kēres-* or **kēras-*, *γῆρας* 'old age', *γέρας* 'gift of honour', *δέμυς* 'bodily frame'. Skr. *tāmis-rā* *tāmis-ra-m* 'darkness' beside *tūmas*; Lat. *tenebrae* instead of **temebrae* (I § 570 p. 428 f.) and Mid.Dutch *deemster* 'dark' may contain either **temes-* or **temas-*. Skr. *rōcīṣ-* n. 'light' beside *sva-rōcas-* and Avest. *raocah-* n. 'light, clearness', O.Pers. *raucah-* 'day'. Avest. *hadiṣ-* O.Pers. *hadiṣ-* n. 'seat' beside Skr. *sādas-*. As regards the Aryan forms, however, it must be borne in mind that -iṣ- may represent Indo-Germanic -i-s-.

To this class perhaps also belong Gr. masc. *ἔρως* 'love' and *γέλως* 'laughter'. According to Solmsen (Kuhn's Ztschr. XXIX 109), there was the same ablaut-relation between these nominatives and the stems *ἐρας-* *γελας-* seen in Hom. *ἐραν-νός* *ἡράσ-σατο* Pindar. *γελᾶνής* Hom. *ἐγέλασ-σα*, as between *δω-* **dō-* and *δα-* **dā-* 'give' (I § 317 p. 255 f.): *γέλως* **γελασ-ος* **γελασ-ι* etc., thence by qualitative assimilation of the vowel **γελο(σ)-ος* **γελο(σ)-ι*; later on they passed into the *o*-declension: acc. *γέλω-ν* *ἐρο-ν* and so forth.

3. -i-s-. Lat. *cinis*, *pulvis*, gen. *cineris* for **cinis-is* cp. *cinis-culu-s* (I § 33 p. 33). Danielsson (Gramm. u. etym. Stud. I

51) compares, perhaps rightly, *cinis* with Gr. *κόνη-ς*. The same scholar assumes a stem *θέμω-* 'ordinance, right' in *θέμω-κρίων* *θέμω-τ-* and so forth. Here might also be classed some of the Aryan neuters in *-iš-* (see under 2); I will add only Skr. *arcāḥ* 'beam' *jyōtiḥ* 'light'.

Was this *-is-* ever the weak form of an earlier *-ies-*?

4. *-u-s-*. Skr. *dhānuḥ* n. 'bow' beside *dhānū-ḥ* m. *dhānvan-* n.; *pāruḥ* n. 'knot' beside *pārcan-* n.; *mādhūḥ* n. 'sweetness' beside *mādhū-* n.; *mānuḥ* m. 'human being' beside *mānuḥ* m. Goth. *mann-* for **munu-*. Lat. *pecus* n. beside *pecu*, *genus* m. n. 'knee' beside *genu* can hardly be deemed parallel examples; see § 104 p. 313.

In a few instances we find the ablaut *-us-*: *-ues-* (*-uos-*). Mention has already been made of Skr. *āyus-* n. 'life' compared with Gr. *αἰὲς αἰῶ* § 133 p. 423. Another example is Skr. *āruḥ* n. 'wound' beside O.Icel. *orr* n. 'scar' for **arūiz-*.

135. The Suffix *-ies- -iies-¹⁾*.

This is a primary comparative suffix, side by side with the secondary *-ero- -tero-* (§ 75 p. 188 ff.). The fact that it is contained in the superlative suffix *-is-to-* (§ 81 p. 242 ff.) indicates that its comparative meaning was wider then that of the sister suffix *-ero- -tero-*, which from the earliest period to which we can trace it was used only in comparing two things (e. g. Gr. *πό-τερος* 'which of two?'). So that originally the combination *-is + tero-* in Gr. *ἀρισ-τερός* Lat. *sin-ister* and the like (§ 75 p. 190 ff.) was probably not a mere pleonasm.

Even in the proethnic language the comparatives and superlatives containing this suffix had been brought into connexion with 'Positives' formed with all manner of suffixes (*-u-*, *-o-*, *-ro-* etc.), and were regarded as being derived from them, e. g. Skr. *svād-īyas-* Gr. *ἡδ-ίων* 'suavior' beside *svād-ū-ḥ* *ἡδ-ύ-ς* 'suavis'. Thus *-ies-* (*-is-to-*) acquired the character of a secondary suffix, which appears very clearly in the new formations which are so

1) J. Schmidt, Das primäre Comparativsuffix, Kuhn's Ztschr. XXVI 377 ff.

common in the separate languages, such as Skr. *brāhm-tyas-* Lat. *amic-ior*. Compare § 58 p. 107, § 81 p. 243.

As regards the ablaut of the root-syllable, the general rule seems to have been that the comparative had the strong grade (*e* in the *e*-series), and the superlative the weak grade. Parallel to this there was always a difference of accent. The corresponding positive was generally a form in which the weak-grade was regular in the root-syllable. Thus **léngh-ies-*: **léngh-istó-*: **léngh-ú-* 'brisk, small, little' = Avest. *renj-yah-* Gr. ἐλάσσων for **ἐλεγχ-ων* (I § 459 p. 360, § 497 p. 365, § 618 p. 466) instead of **ἐλεγχ-ων* through the influence of the form *ἐλαχ-*: Skr. *lúgh-iṣṭha-s* Gr. ἐλάχ-ιστο-ς (both with the accent shifted, see § 81 p. 243): Skr. *lagh-ú-ṣ* Gr. ἐλαχ-ύ-ς; Skr. *práth-īyas-*: *prth-ú-ṣ*; Gr. κρέσσων: κράτ-ιστο-ς instead of **κρατ-ιστό-ς*: **κρατ-ύ-ς*; ὀλείζων: ὀλίγ-ιστο-ς instead of **ὀλιγ-ιστό-ς*: ὀλίγ-ο-ς; O.H.G. *suoz-iro*: Goth. *sut-ista*. These distinctions of ablaut were to a large extent lost through the influence of analogy; particularly as between the comparative and superlative. E. g. Skr. *lúghīyas-* instead of **lénghīyas-* or the true phonetic form **láh-īyas* (I § 454 p. 335 f.); and conversely *práthiṣṭha-* instead of **prthiṣṭhá-*, *báhiṣṭha-* instead of **bahiṣṭhá-* (compar. *báhi-īyas-* posit. *bah-ú-*); Gr. *τάχ-ων* instead of *θαῦσσον* (τάχιστα, ταχύ-ς), and conversely *ἐλέγχιστο-ς* instead of *ἐλάχιστο-ς*; in *μάσσων* and *μήμιστο-ς* (μακρό-ς) the vowel-grades have exactly changed places; Goth. *sut-iza* instead of **svōt-iza* (O.H.G. *suoz-iro*), but conversely O.H.G. *suōz-isto* instead of **suz-isto* (Goth. *sut-ista*).

In considering all such cases however it must be remembered that in the original paradigm of the comparative besides *-ies-* and *-ios-* the stem also appeared in the form *-is-*, before which the root-syllable must have had the weak-grade; e. g. dat. sing. **léngh-is-ái* like the superlative **léngh-is-tó-*; and this form of the root may also have appeared before *-iés-* (see below). We have perfect right to assume if we choose that even in the proethnic language the strong form of the root (**léngh-ios-*) had prevailed in all cases of the paradigm of the Comparative, so that, e. g. **lénghisái* had dropped out of use in favour of **léngh-*

isdā; but it is quite as easily conceivable that forms like **iagh-isdā* descended into the separate languages, and there assisted in levelling the forms of the Comparative and the Superlative. The latter assumption would also make it easier to understand such instances as *μάσσων: μετίστο-* (Avest. *mas-yah-* O.Pers. *maṣ-išta-*).

There are some examples without vowel-gradation in the root: **plē-īos- *plē-īs-: *plē-īs-tó-: *plē-ro- = Skr. prā-yas* Gr. *πλέ-ες* for **πληϊσ-: Gr. πλειϊσ-το-*; Lat. *plē-ru-s* Gr. *πλή-ρ-η-*.

As regards the different forms assumed by the comparative suffix itself in different languages many points are still obscure. The history of *-ies-* is in many ways parallel to that of the participial suffix *-ues-* (§ 136).

Remark 1. It is absolutely impossible to maintain that *-iens-* was the original form of this suffix. I attacked this view in Kuhn's Ztschr. XXIV 54 ff., and J. Schmidt in the same periodical XXVI 237 ff. has again undertaken its defence. Schmidt imagines that *-iōns (-iēns)* in the nom. sing. masc. became *-iōs (-iēs)* in the protothnic language by a regular phonetic change (cp. I § 220 p. 188) and that the nasal was dropped in other cases by analogy. To say nothing of the fact that no certain examples of this protothnic phonetic law (*-iōs* coming from *-iōns*) have been adduced (cp. also p. 415)¹, the results which Schmidt's hypothesis involves are altogether incredible and inadmissible: see the Author in Iw. Müller's Hdb. II 55 and Solmsen, Kuhn's Ztschr. XXIX 83 (Collitz too declares against Schmidt, Bezenb. Beitr. X 65). I therefore still believe in *-iēs-* (and in *-ues-* also; see p. 439).

-iēs- and *-iē-* stand side by side, just as *-iō-* and *-iō-*; and the form *-iē-* which is represented by Skr. *-iyas-* Gr. Att. *-io(σ)-* may be compared with *-iō-*, see § 63 p. 122.

The following conclusions may be considered as adequately established for the parent language (in what follows the parallel forms *-iēs-* *-iē-* are disregarded).

1. *-iōs* in the nom. sing. masc., *-iōs* in the nom. acc. sing. neut.: Avest. *vah-yā vah-yō*, Skr. *vās-yas* (n.), Lat. *ma-jōr* instead of *-jōs* (I § 569 Rem. 2

1) R. Meringer (Ztschr. f. österr. Gymn. 1888 p. 134) derives the acc. pl. **gōs* (Skr. *gās* Gr. *βῶς*) through **gōns* from **gōms*. On p. 138, however, he assents to my view that the acc. sing. was **gō(u)m* before a sonant, but **gōm* before a consonant. I confess I do not see how to reconcile these statements. I must still regard Meringer's **gōms* as a monstrosity, and the view that *gās βῶς* are re-formations on the analogy of the acc. sing. as perfectly admissible.

p. 426 f. l. *mā-jus*, O.Ir. *māo* (m.), Goth. *hāuhis* (n. adv.) for pr. Germ. *-jaz*, O.C.Sl. *bol-je* (n.) for pr. Slav. *-jos*.

2. *-jos* in the voc. masc.: Skr. *vās-yas*.

3. *-iēs-* in the loc. sing.: Skr. *vās-yas-i* (the accent has been shifted). Also in the fem. nom. *-iēs-i*, gen. *-is-iēs* etc.; levelling in different directions produced on the one hand Skr. *vās-yasī vās-yasyās*, on the other Goth. *sut-izei sut-izeins*, and O.C.Sl. *bol-jīsi bol-jīse* (instead of **bol-ješi *bol-jēse*). The suffix has also the *-ies-* form in Lith. *sald-ės-nis* 'sweeter' with *-es-* for *-ies-* (I § 147 p. 131), in the unique Pruss. gen. pl. *muīs-ies-on* 'maiorum' and perhaps in Lat. *mā-jes-tās* beside *mā-jor* (this may also be a new formation modelled on *hones-tās*: *honor* and the like) and *pē-jer-ārē* beside *pē-jor* (cf. Osthoff, *Zur Gesch. d. Perf.* 115).

4. *-is-* in the weak cases, e. g. dat. sing. *-is-ai* loc. pl. *-is-sū*. This form of the suffix has spread through the paradigm, wholly or in part, in Gr. *πλεῖς πλείας* neut. *πλεία* (**πλείας-*), Goth. *sut-iz-a* gen. *sut-iz-ins*, *māiz-a* gen. *māiz-ins*, O.C.Sl. gen. *bol-jīsa* 'maioris' for **bol-jīs-iā* instead of **bol-iīs-iā* (see below). There were moreover adverbs in *-is-*: **mā-is* = Osc. *mais* 'magis' Goth. *māis* 'more', Lat. *mag-is*, Goth. *valrs* for **mirs-iz*, Gr. *πρῆς* = Lat. *prīs-* in *πρῆς-γυ-ς πρῆς-βυ-ς prīs-cu-s*. Further *-is-* occurred in the fem., gen. *-is-iēs* etc., see 3. Cp. superl. *-is-tō-*, § 81 p. 242 ff.

Finally I regard it as probable.

5 That the strong cases of the masc. (except the nom. sing.) had *-jos-*: acc. Avest. *vah-yānh-em* Gr. *ἡλῶσσω* for *-jo(n)-a*. The fact that in Greek *-jos-* is confined to the strong cases (there is no such form as **ἡλῶσσω-ος* in the gen., for example) may be regarded as an additional proof that in the other cases another form of the suffix prevailed; for if all the cases had originally had *-jos-*, they would surely have all been treated in the same way.

In Aryan, *-iēs-* was displaced by *-yas-* in the weak cases: dat. sing. Skr. *vās-yas-ē* Avest. *vah-yānh-ē*, gen. sing. Skr. *vās-yas-as* Avest. *vah-yānh-ō*. Where *-yas-* is also found in the strong cases in the same group of languages, as Skr. *kaniyas-am* 'iuniozem' Avest. *vañhānh-em* 'melioremi' (*-ñh-* = *-hy-*, I § 558 p. 415), it is not original, but due to a secondary change. Instead of *-yas* in the voc. sing. masc. *-yan* appears in the post-vedic language; this form is doubtless due to the analogy of *-van* (§ 136 p. 441).

In Latin the *-iēs* of the nom. sing. was carried through the whole case-system; later it became *-iōr* following the other cases, where *-es-* regularly became *-r-*; *mā-jor-jōr-em-jōr-is* etc.; cp. *hon-or-ōr-em* and so forth, § 133 p. 423.

The Old Church Slavonic nom. sing. masc. *boljījī boljijī* beside neut. *bolje* is probably not a compound word (*boljī + jī*), but a modification of **bol-ijī* which had the suffix in the form *-iēs-*; beside it we find *norē-jī* with *-ies-*. *boljījī* owes its form to the influence of the neuter *bolje*, or of masculines like *dobljī-jī*, or of both together. The masc. terminations *-jī* and *-jī* (instead of **-ija *-je* = Idg. **-iēs *-iēs*) are due to the influence of the *-iō-* stems, such as *dobljī*; *norē-jī* bears to neut. *norē-je* the same

inferred from *ὠκ-ιστο-ς*), Lat. *ōc-ior*. **plē-īos-* (**plē-īs-* by a pro-ethnic contraction from **plē-is-*; see I § 116 p. 108) beside Lat. *plē-ru-s* Gr. *πλή-ρ-ης*: Skr. adv. *pra-yas* Avest. *fra-yah-*, Gr. *πλείω* *πλείς*, Lat. *plēdr-ēs* or *plēdr-ēs* and *plīs-ima* carm. Arv., (O.Ir. *lia*, see p. 435), O.Icel. *flēir-e* (re-formed to correspond with *meir-e*). **mō-īos-* **mō-īs-* beside O.Ir. *mā-r* Gall. *-māru-s* (in proper names) 'great' Goth. *-mēr-s* 'great' (cp. § 81 p. 247): Osc. *mais* 'magis', O.Ir. *māo mō*, Goth. *māiz-u* adv. *māis*¹⁾; perhaps Gr. *Μαίων* should also be classed here.

Aryan. Skr. *vās-yas-* Avest. *vah-yah- vañ-yah-* (I § 558 p. 415) beside *vās-u- vanh-u-* 'good'. Skr. *āś-īyas-* Avest. *as-yah-* beside *āś-ū- ās-u-* 'swift': Gr. *ὠκ-ίων* etc., see above. Skr. *māh-īyas-* Avest. *maz-yah-* 'greater': Gr. Ion. *μέζων*, Lat. *māior* (cp. I § 135 p. 122) *mag-is mag-is-ter* (cp. I § 469, 8 p. 346 f.). Skr. *nēd-īyas-* Avest. *nazd-yah-* 'nearer' for pr. Ar. **na-zd-*; see I § 591 p. 447 and II § 4 p. 9.

Skr. *vār-īyas-* beside *ur-ū-* 'wide'. *śrē-yas-* beside *śrī-lā-* 'fair, glorious': should we compare Gr. *κροῖων* 'noble, princely, ruler' (which has passed into the *-vr-* declension, like *θροάπων* etc., see § 114 p. 350)? *kṣēp-īyas-* beside *kṣip-rā-* 'quick'. *dāv-īyas-* beside *dū-rā-* 'distant'. *tēj-īyas-* beside *tig-mā-* 'sharp'. *srāj-īyas-* beside *srag-vīn-* 'crowned'. *nāv-yas-* *nāv-īyas-* beside *nāv-a-* 'novus': Lat. *nov-ior*, O.H.G. *nio-iro niuo-iro* 'novior'. *prē-yas-* beside *priy-ā-* 'dear'. *jyā-yas-* 'mightier'. As regards Skr. *sthēyas-* instead of **sthā-yas-* beside *sthi-rā-*, *sphēyas-* instead of **sphā-yas-* beside *sphi-rā-*, see § 81 p. 244.

Avest. *mas-yah-* 'greater' beside O.Pers. *maṣ-išta-* 'the greatest': Gr. *μάσσων* beside *μακρό-ς* 'long'. Avest. *taš-yah-* 'more warlike, stronger' ground-form **tenq-īes-* (I § 200 p. 168, § 473 p. 350), beside superl. *tanc-išta-*. In Avestic the metre often shows that the reading should be *-iyah-*, as *renjiyah-*, *nazdiyah-*, *masiyah-* (beside *mah-*) *s.ya*

In Sanskrit we find occasionally new formations from noun-

1) In the light of this paragraph what is said about this Gothic word in I § 635 p. 475 should be corrected.

stems, as *tíkṣh-tyas-* from *tíkṣh-ḡá-* 'sharp', *brāhm-iyas-* like *brāhm-iṣṭha-*, *drádh-tyas-* like *drádh-iṣṭha-*; see § 81 p. 245.

Greek. *-io(σ)- -ō(σ)-* occurs only in the acc. sing. masc. and the nom. acc. plur. masc. and neut. By its side we find through all the cases *-ion- -ōn-* (*-on-* in *πλεῖν, πρεῖν πρὶν πρεῖν*); in Rem. 1 p. 430 I have stated my conjecture that this form represents Idg. *-ion-* and never contained *s*. *-io(σ)- -ion-* occur in Attic.

The examples are given in the form of the acc. sing. masc. in *-iō -ō* for **-io(σ)-a *-ō(σ)-a*.

πάσσω and *παχ-ίω* beside *παχ-ύ-ς* 'fat, thick'. *θάσσω* for **θαγγ-ιοσ-α* beside *ταχ-ύ-ς* 'swift' (we must compare Pol. *dążyć* 'to press forward, aspire, hasten', see Bezzenberger in his Beitr. XII 241; the favourite comparison of this with Avest. *tašyah-* has not been reconciled with phonetic law), cp. *ἐλάσσων* p. 427. *βραδ-ίω* beside *βραδ-ύ-ς* 'slow': Skr. *mrād-tyas-*. *γλυκ-ίω* beside *γλυκ-ύ-ς* 'sweet'. *ὀλιζέω* beside *ὀλιγ-ος* 'little' *ὀλίγ-ιστος*, from which *ὀλιζέω* was afterwards formed. *κακ-ίω* beside *κακ-ός* 'bad'. *ἐχθ-ίω* beside *ἐχθ-ρός* 'hostile'. *ἥσσω* 'inferiorem' beside *ἥ-α*: *ἡττᾶσθαι* instead of **ἡττοῦσθαι* follows *νικάσθαι*, and from the verb *ἡττᾶσθαι* the substantive *ἡττα* was itself formed (Wackernagel, Kuhn's Ztschr. XXX 299 f.). *ἀμείνω* for **ἀμεν-ιω* 'meliorem'. A form **ἀγγ-ιοσ-* 'nearer' may be inferred from the adv. *ἀσσον* for *ἀγγ-ιον* (beside *ἄγγ-ι*): Skr. *āh-īyas-* O.H.G. *eng-ir-o* 'narrower'. *μείω* 'minorem' for **μι-ιο(σ)-α* beside **mi-no-** *mi-nu-*, Lat. *mi-nus* Goth. *minniza* for **mi-nu-is-*, see below; the superl. *μειστος* stands for **με(ι)-ιστος* (for the vowel-grade of the root cp. *ἐλέγγ-ιστος* and the like p. 427) or else is a new formation in imitation of its opposite *πλειστος*. *πλείω* *πλείω* 'more' instead of **πλη-(ι)σ(σ)-α* has been affected by the form of *πλειστος* (like Skr. *sthē-yas-* instead of **sthā-yas-* through the influence of *sthēṣṭha-*, § 81 p. 244), and perhaps also to some extent by *μείω*; by the side of it we find a form *πλεισ-* for **plēis-*, belonging properly to the weak cases of the comparative, in Hom. *πλέ-ες πλέ-ας* Cret. *πλί-ες* neut. *πλί-α* (*i* for *ε*, I § 64 p. 51¹⁾): Skr. *prā-yas* etc.; see p. 431 above. *κρείσσω κρείττω*

1) Here for 'in the Doric dialects' read 'in some Doric dialects'.

beside Ion. *κρέσσω* (: *κράτ-ιστο-ς* *κρατ-ύ-ς* 'strong' and *μείζω* beside Ion. *μίζω* (: *μέγ-ιστο-ς* *μέγ-α-ς* 'magnus') owe their *ι* to the analogy of *χείρῳ ἀμείνω ὀλείζω*, conversely Ion. *ἔσσω* beside *ἦττω* follows *κρέσσω*, cp. I § 639 Rem. p. 479 and Ber. d. sächs. Ges. d. Wiss. 1883 p. 193.

In rare instances we find nominal suffixes preceding the comparative *-ισ-*, as *καλλ-ίω* 'pulcriorem' beside *κάλλος* n., *βελ-τ-ίω* 'meliorem'. Compare the superlatives, § 81 p. 245.

In Cretan (Gortyn) we find *πρείγω* (*πρείγωνα*) beside *πρεῖγυν-ς* and *κάρτω* (*καρτόνανς*) instead of **κρέττω* = Ion. *κρέσσω*, beside *καρτύν-ς*. It remains doubtful whether these forms are regular phonetic representatives of **πρειζγ-ιω*, **καρτ-ιω* (cp. Dor. *κάρρων* for **καρσων*), or new formations with *-ω* instead of *-χω* on the model of some one or more forms where the *χ* had regularly disappeared.

One example of an adverb in *-is* is *πρεις-* ('before') found in the compound Cret. *πρεῖσ-γυν-ς* (whence *πρεῖγυν-ς* by assimilation). Thessal. *πρεῖσ-βυν-ς* (cp. I § 428 p. 316), which corresponds to the *prīs-* of the Lat. *prīs-cu-s* (beside *prior prius*), cp. Rem. 1 p. 429 and for *-γυν-βυν-*, § 91 Rem. p. 277. Obviously **πρις* is related to Cret. *πρίν* (Hom. *πρίν* Att. *πρίν*) as *πλεισ-* (in *πλέες πλεῖστο-ς*) to Att. *πλεῖν* and as *πλείους* (i. e. **πλειοσ-ες*) to *πλείον-ες*, cp. Rem. 1 p. 430. If we start from an original **prēi-ijos-* **pri(i)-is-* (by analogy **pri-ijos-* and **prei-is-*), Lat. *prīs-* may represent not only **πρις* but also **prii-is* (cp. *πρίν*). It must be admitted that the forms *πρέσγυν-ς* *πρέσβυν-ς* are still obscure¹⁾.

Italic. O.Lat. *minerimu-s* for **minis-imo-s* (cp. *plūr-imu-s* etc.), *minis-ter*, Osc. *minstreis mistreis* 'minoris': cp. Goth. *minniza*

1) The student who believes that the doctrine of 'hyphaeresis' (*κέσμετο* = **κε(ι)εσμετο*, *σπέσσι* = **σπεεσσι*) is not a mere midsummer madness, may find comfort in supposing that **πρις-* stands for an older form **πρι(ι)ς-*, an analogical modification of an original loc. **pri-ies-*. It is simpler however to analyse **πρις* into *πρ* + *-ες* (the genitive ending), and to regard it as a by-form of *πάρ-ος* Skr. *pur-ás* (I § 294 p. 234): Prellwitz, De dial. Thessalica 1885 p. 11 takes a very similar view, but a different explanation may be found in Per Persson's *Studia etymologica*, Upsala 1886, p. 95.

'minor' for **mi-ny-is*. O.C.Sl. *mǫnjǫ* 'minor' and the archaic Gr. *μῖνον* 'minorem' for **μῖν-100-a* (p. 432); *minus* was a neuter like *vol-nus* Gr. *δά-voς* (see § 132 p. 415 and p. 418); it originally meant 'minority', and then like *vetus* came to be used as an adjective; when it had thus become the opposite of *majus*, *mājōris* *mājor* etc. gave rise to the analogous formations *minōr-is* *minor* etc.¹⁾ Umbr. *mes-tru* f. 'maior' (cp. § 75 p. 195). Osc. *mais* 'magis': O.Ir. *māo* etc., see p. 431 above. Osc. *pūstir-is* 'posterius'.

Lat. *ōc-ior* beside *acu-pediū-s*: Skr. *āś-tyas-* etc., see p. 430 f. above. *nov-ior* beside *novo-s*: Skr. *nāv-yas-* etc., see p. 431 above. *sen-ior* beside *senex*: Skr. *sān-yas-* beside *sān-a-s* 'old'. O.Ir. *sin-iu* 'older' *sinser* 'the elder, eldest' for **senis-teros* beside *sen*, Lith. *senės-ni-s* 'older' beside *sēn-a-s*, cp. also Goth. *sinista* 'eldest'. *mel-ior*, *pē-jōr*, *mājor* *majus* with *magis* beside *māgnu-s*: Skr. *māh-tyas-* etc., see p. 431 above; the evidence of the Gr. *μέγα-ς* and the Goth. *mikil-s* shews that the root originally had *e* and hence it seems necessary to assume that the Latin word has been influenced by the pr. Ital. **maīs-* = Idg. **mā-is-* (cp. Osc. *mais* beside Lat. *magis*, Umbr. *mes-tru* beside Lat. *magister*), which belongs to a different root.

plēvērēs and *plūsima*; see p. 431 above. It has not yet been clearly shewn what relation the forms *plous plūs*, *plūr-es*, *plūr-a* and *plourume* (C. I. L. I 32) bear to **plē-ijos-* which we must assume as the ground-form of the comparative stem.

Remark 2. For a discussion of these latter forms see Stolz (Iw. Müller's Handb. II p. 164), Danielsson (Pauli's Altital. Stud. IV p. 164 and Osthoff (Paul-Braune's Beitr. XIII 445 f.). Danielsson's proposal to assume a form **plō-ijos-* parallel to **plē-ijos-* is the simplest from the phonetic standpoint. We should start from a stem **plōis-*, whence we should arrive at **plōis-* (according to I § 812 p. 462)²⁾, and then at *plūr-*. In *plous- ou* would be merely a graphic representative of the sound *ū*.

1) It seems to me less probable that even at the time when *minus* was still a substantive, there was also a masc. form *minor*, like *decor* beside *decus* and the like (§ 133 p. 423).

2) In the third line of this paragraph read 'explosive or spirant' instead of 'sonant'.

Adverbs in *-is-*. Lat. *mag-is* beside *major. nimis. satis. prīs* in *prīs-cu-s* beside *prior*, see p. 433 above; is it also contained in *pridem*?¹⁾ Osc. *mais* 'magis': Goth. *máis*.

There was in Latin a very great deal of levelling between the form of the comparative and that of the positive, which converted *-ies-* into a secondary suffix. *suāvior* instead of **syād-ior* follows *suāv-i-s* for **syād-y-i-s*, cp. Skr. *svād-īyas-*. *tenuior* instead of **ten-ior* follows *ten-u-i-s*, cp. Skr. *tan-īyas-*. *levior* instead of **leg-ior* follows *levi-s* for **legu-i-s*. *sēr-ior* instead of **sē-(i)ōs* follows *sē-ru-s*; in the same way, in old Irish, side by side with the regular *sia* there arose a form *sīriu sīre* on the analogy of the positive *sī-r* 'long'. *jūn-ior juven-ior*, cp. Skr. *yāv-īyas-*. *audāc-ior. facil-ior. asper-ior. doct-ior. sapient-ior.*

Lat. *super-ior inter-ior dexter-ior* Osc. *pústir-is*; see § 75 p. 195. Late formations are *plūriōrēs proximior* and the like.

Old Irish. Only the nom. sing. has been kept.

māo mō for **mō-īōs*, beside *mā-r* 'great': Osc. *mais* etc., see p. 431. *sin-iu* beside *sen* 'old': Skr. *sán-yas-* etc., see p. 434. *laig-iu* 'smaller'.

It is often a secondary suffix, as in *sīr-iu* (see above), *foills-iu* from *folllus* 'manifest', *uaisl-iu* from *uasal* 'high'.

Sometimes we find *-u* instead of *-iu* after consonants, as *lug-u* beside *laigiu*. This is perhaps a new formation modelled upon those forms in which *i* had been dropped between vowels, such as *māo* (**māu*).

The forms in *-a* have not been explained: examples are with *māa mā* side by side *māo*; *lia* beside *il* 'much': Skr. *prā-yas* etc., see p. 431 above; *sia* beside *sī-r* 'long'; *ōa* beside *ōac ōc* 'young': Skr. *yāv-īyas-*; *nessa* 'nearer'.

-is-tero-: *sinser ōser*, see § 75 p. 196.

Germanic. As a rule, the suffix is extended by *n*-suffixes.

1) *pridiē* can only be regarded as **pris-diē* if it is assumed that *postridiē* stands for **postris-diē* (cp. Osc. *pústir-is*) (Havet's explanation, in *Mém. de la Soc. de lingu.* IV 229, seems to me untenable). But *postrī* may also be loc. sing. of *postrō-*, and *pridiē* may have been formed later in imitation of *postridiē*.

These are absent only in such adverbs as Goth. *hauh-is* 'higher' *nēhv-is* 'nearer', *hald-is* 'more gladly, potius, rather' *fram-is* 'further on'; the termination *-is* seems to be the original neuter termination *-jos* (Rem. p. 428 f.), while such adverbs as Goth. *vairs* O.H.G. *wirs* 'worse', for pr. Germ. **wirs-iz*, Goth. *min* O.H.G. *min* 'less', for **miny-iz* represent Idg. *-is* (see loc. cit.).

Pr. Germ. *-iz-en-* (*-iz-en-*) m. n. (f. Goth. *-iz-ein-* O.H.G. *-ir-ōn-*). Goth. *sut-iza* O.H.G. *suoz-iro* 'sweeter': Skr. *svād-īyas-* etc.; see above, p. 430. Goth. *māiza* O.H.G. *mēro* 'greater': Osc. *mais* etc., see above, p. 431. Goth. *hard-iza* O.H.G. *hart-iro* *hert-iro* beside Goth. *hard-u-s* 'hard': Lith. *kartės-ni-s* beside *kart-ū-s* 'bitter'. Goth. *hauh-iza* O.H.G. *hōh-iro* beside Goth. *hauh-s* 'high'. Goth. *bat-iza* O.H.G. *bezz-iro* 'better'. Goth. *vairs-iza* O.H.G. *wirs-iro* 'worse, wicked'. The forms have often been levelled to match the positive, and secondary formations have arisen: Goth. *jūh-iza* O.H.G. *jung-iro* and *jūg-iro* beside Goth. *jugg-s* O.H.G. *jung*, as contrasted with Skr. *yāv-īyas-* O.Ir. *da*, cp. O.H.G. *jungisto* § 81 p. 248; Goth. *alp-iza* O.H.G. *alt-iro* beside Goth. *al-p-ei-s* O.H.G. *al-t* 'old'. The origin of Goth. *minn-iza* O.H.G. *minn-iro* for **mi-nu-iz-*, compared with Gr. *μείω* Lat. *minis-ter* O.C.Sl. *měnjŭjŭ*, is obscure.

-ōz- *-ōz-en-* appeared in proethnic Germanic side by side with *-iz-* *-iz-en-*; see § 81 p. 248. It is used only in the comparatives of *o*-stems in Gothic and (with rare exceptions) in Old High German. Adv. Goth. *sniumundōs* 'more hastily', *aljaleikōs* 'otherwise'. Goth. *frōdōza* from *frōp-s* 'wise', *svinþōza* from *svinþ-s* 'strong, powerful', O.H.G. *liobōro* from *liob* 'beloved', *lihtōro* from *liht* 'bright', *gileganōro* from *gi-legan* 'apt, suitable': *hōhōro* (also *hōhiro*) from *hōh* 'high', *hērōro* (also *hēriro*) from *hēr* 'grand, glorious'; this variation is frequent; *tiurōro* (and *tiuriro*) from *tiuri* 'dear, valuable'.

O.H.G. *obarōro* (*obarōsto*) from *ob-aro* 'upper', *aftrōro* (*aftrōsto*) from *af-tro* 'later', *fordrōro* *fordarōro* (*fordarōsto*) from *for-dro* *for-daro* 'former'. *mēr-iro* and *mērōro* from *mēro*.

Balto-Slavonic. In Lithuanian the only form of the suffix is *-ies-*, in the combination *-ē-s-n-i-s* *-ē-s-n-é*; the origin of

the second part (*-n-jo-*) is difficult to explain (an attempt may be found in Schmidt's paper in Kuhn's *Ztschr.* XXVI 399 f.). In Slavonic in the nom. acc. sing. neut. *-je* = Idg. *-ios*; as regards *-jše-* instead of *-šē-* = Idg. *-is-jo-* and nom. sing. masc. *-jījī* (later *-jijī*, no doubt by the rule in I § 36 p. 37) *-jī*, see p. 429 f.

Remark 3. For the Lithuanian comparative adverbs in *-iaus*, such as *saldžiaus* 'more sweetly', whose suffix has nothing to do with *-ies-*, see § 81 p. 248 f.

Lith. *sald-ēsni-s* O.C.Sl. *slazdījī*, neut. *slazde*, beside *sald-ū-s* *slad-ū-kū* 'sweet'.

Lith. *gerēsni-s* beside *gēra-s* 'good', *didēsni-s* beside *dīdi-s* 'great'. It is clearly denominative in e. g. *baltēsni-s* from *bāl-ta-s* 'white' *jaunēsni-s* from *jāu-na-s* 'young'.

In Prussian a solitary example with *-ies-* is preserved (*-ies-* no doubt = Idg. *-ies-*): *muīs-ies-on* 'maiorum'.

O.C.Sl. *boljījī* *boljiī* neut. *bolje* 'greater': Skr. *bāl-ryas-* 'stronger, more powerful'. *gorjījī* 'worse': Skr. *gār-ryas-* 'gravior', *mānjījī* 'smaller': O.Lat. *miner-imu-s* *minis-ter*, see pp. 433 f. 436 above. *krépljījī* beside *krépūkū* 'strong'. *chuždījī* beside *chudū* 'bad'. *vyšījī* beside *vysokū* 'high'. As to the effects produced by the first *j* of *-jījī* upon preceding consonants, see I § 147 p. 132 ff.

This formation however is not so frequent in Slavonic as that in *-ē-jīs-*: nom. sing. masc. *-ējī* nom. acc. sing. neut. *-ėje* gen. *-ējīša* and so forth. *novējī* from *novū* 'new'. *silīnejī* from *silīmū* 'strong'. *mūnožajī* from *mūnogū* 'multus', for **mūnogējī* according to the rule given in I § 76 p. 66. As the last example shows, the *ē* of *-ējī* was Idg. *ē*, and it can scarcely be doubted that this comparative formation arose from the addition of the suffix *-ies-* to the instr. sing. in *-ē* of the *o*-stems; compare the Germ. comparative in *-ōz-(en-)*, formed from the instr. sing. in *ō*. From the nom. sing. in *-ē-jī* *-ē-je*, *j* passed into the other cases; hence the gen. *-ē-jīša* instead of *-ē-īša* and so forth. The Prussian comparatives with *-ais-* seem to be of the same kind; e. g. *maldaīs-in* acc. sing. masc., from *malda-* 'young', cp. O.C.Sl.

mladē-jt beside *mladū* 'young', *urais-in* beside *ura-* 'old', *massais* adv. 'less' beside Lith. *māža-s* 'small'. It is doubtful however whether these forms come from the instrumental in *-i* or from that in *-ō*, whether *-ais-* represents *-ē-is-* *-ēis-* or *-ō-is-* *-ōis-*.

§ 139. The Suffix *-ues-*¹⁾. This served to form the Perfect Participle Active.

In this participle as elsewhere the perfect stem was reduplicated; cp. Skr. *ba-bhā-vās-* Gr. *πε-qv-ός* from *√ bheu-* 'become'. Even such forms as Goth. pl. masc. *bēr-us-jōs* 'parents' Lith. fem. *sēd-us-i* (beside *sēd-au* 'I sit') contained reduplication, as we shall see when we come to discuss the verb.

Remark 1. It may be assumed that the syllable of reduplication had not come to be regarded as an integral element in the formation of the *-ues-* participle, until the latter had been associated with the perfect system (single forms with *-ues-* may very well have had the reduplicating syllable before that time, see § 52, 2 p. 93 f., and these very forms may have been the chief factors in cementing the connexion of this participle with the perfect-system). It is therefore a question whether the partic. Skr. *vid-vās-* Gr. *ῥειδώς* *ειδώς* has not descended as an unreduplicated form from a period older than the date at which this association had taken place: it is certain that the infinitive Avest. *vid-van-ōi* Gr. *ειδ-ειν-αι* (§ 116 p. 363), whose connexion with the verb belongs to a comparatively late period, never had the reduplication. I conjecture that this participle of *veid-* was always unreduplicated, and being a word very frequently used banished the reduplication even in the forms of the finite verb (Skr. *vēda* Gr. *ειδ* etc.). Other participles without reduplication must be explained in the same way, e. g. Skr. *sah-vās-* *viśi-vās-*, Gr. *εικ-ός*, *ἄγνα* (sc. *ἡ ὁδός*) *οἰδω* (sc. *ὁρῶ*)²⁾, Lith. *dēg-ęs* O.C.Sl. *žeg-ŭ*, Lith. *vėž-ęs* O.C.Sl. *vez-ŭ*.

The root-syllable has generally the weak-grade of Ablaut: this is regular in Aryan, as Skr. *ri-rik-vās-* beside *ri-rēc-a* 'he

1) J. Schmidt, Das Suffix des participium perfecti activi, Kuhn's Ztschr. XXVI 329 ff. W. Schulze, Zum participium perfecti activi, ibid. XXVII 547 ff. (with this essay compare Spitzer, Lautl. des arkad. Dialektes, Kiel 1883, p. 11 ff.). F. Miklosich, Beitr. zur altsloven. Gramm., Vienna 1875, p. 5 ff. (das Partic. praet. act. I).

2) Cp. E. Würner, Die Substantiva auf *-eia*, in Sprachwissensch. Abh. aus G. Curtius' gramm. Gesellsch. 1874 p. 111 ff. On p. 114 the author writes of participles like *ἄγνα* that 'either they have lost their reduplication, or else — more probably — they never had any'.

set free, made empty', *ca-kr--vās-* beside *ca-kār-a* 'he made', Gr. *ιδ-νῖα* f. 'knowing' beside *οἶδε*, Lith. *vil̃k-ęs* O.C.Sl. *vlūk-ŭ* beside the pres. *velk-ŭ vlēk-a* 'I trail'. Certain forms, however, seem to have originally had the strong grade, that is *e* in the *e*-series, *ē* in the *ē*-series and so forth. This is indicated by Gr. *εἰδώς* (: *ιδνῖα*, *οἶδε*), *κεκλεβώς* Messen. (: *κέκλοφε*), *ἐρρηγεῖα* Heracl. (: *ἐρρωγε*), *λεληκώς* (: *λελακνῖα*), *ἀρηκώς* (*ἀραρνῖα*), *ἐστη-ώς* (: *εστᾱ-ώς*) and the like; also by Goth. *veitvōp-s* 'witness', if, as is probable, its *ei* = Idg. *eī* (see below)¹). It may be assumed, that originally this form of the root was proper to the strong cases of the masc. and neut., where the participial suffix appears in its *-o-* form (*-uōs-* not *-uēs-*): nom. sing. masc. **uēid-uōs* acc. **uēid-uos-n̥*. Further explanation of the forms assumed by the root-syllable (e. g. Goth. *bēr-us-jōs* Lith. *séd-ęs*) must be reserved for the section dealing with the formation of the perfect-stem.

With respect to the phonetic variation in the character of the participial suffix, our enquiry into its original form or forms is met by the same difficulties as we encountered in dealing with the primary comparative suffix (§ 135). Much has still to be explained.

Rem. 2. In Kuhn's Ztschr. XXIV 69 ff. I have attacked the view (which J. Schmidt, *ibid.* XXVI 337 ff., has again undertaken to defend) that this suffix originally contained a nasal (*-uens-*). My criticism (§ 135 Rem. 1 p. 428) of the old view of the comparative suffix, applies equally well to this. It is absolutely untenable. The arguments on either side are on the whole the same, see *loc. cit.* I therefore still regard *-ues-* as the original form.

There is no record of a form *-umes-* parallel to *-ues-* (cp. *-ies-* beside *-ies-*). Osthoff, *Zur Gesch. d. Perf.* 401 ff., endeavours to shew that in Skr. forms like *ōkieds-* *paptieds-* the termination *-ivas-* took the place of *-ueas-*.

If we disregard this question as to the initial part of the suffix and regard it simply as *-ues-*, the following assumptions may be considered as adequately established for protoethnic Indo-Germanic.

1. The nom. sing. masc. ended sometimes in *-uōs*, Gr. *ιδ-ώς*, sometimes in *-uēs*, Lith. *dā-vęs* instead of **dā-vēs* (see below). The pr. Ar. *-uās*, Avest. *vid-rā*, may represent either termination; here we must notice the

1) O.C.Sl. *vlēkŭ* and *brēgŭ* prove nothing. See O. Wiedemann, *Beitr. zur altbulg. Conjugation*, 1886. p. 132 f.

Skr. compounds with *á-dúṣ-sú*, as *á-vidras- sú-vidras-* beside *vid-rás-*, favouring the view that *-uōs* and *-uēs* existed side by side in Aryan.

2. *-uos* in nom. acc. sing. neut.: Gr. *νιδ-ός*. There was probably a parallel form *-uén*, compare the masc. *-uēs*. It remains uncertain whether the Lat. neuter forms *cadáver* and *papáver* contained this suffix (*-er* would have taken the place of the phonetically regular **-es*).

3. *-uos*, or (under other conditions) *-ues*, in the voc. sing. m.: Skr. *vid-ras*.

4. *-uēs* in the loc. sing.: Skr. **-cas-i* (there is unfortunately not a single example of this case in our text of the Veda). We may again directly compare with this the feminine formation (cp. § 135 p. 429): nom. *-ué-si* gen. *-us-iēs*; Gr. *-εία* beside *-εία*; an original *γγορεία*: **γγορέα* became, by levelling, on the one hand *γγορεία*: *γγορέα*; on the other *γγορέα*: *γγορέα*; cp. also Laced. *βίδεο* beside *βιδυοι* *ιδείοι* *ιδέοι* name of an official ('inspectors').

5. *-us-* in the weak cases: dat. sing. Skr. *vid-úṣ-ē* Avest. *vid-vi-*, gen. sing. Skr. *-úṣ-as* Avest. *-uṣ-ō*, gen. pl. Skr. *-úṣ-ām* Avest. *-uṣ-am*, instr. pl. Avest. *-ūṣ-biṣ*. Further in the fem. suffix *-us-iē-* and the corresponding masc. neut. *-us-iō-*: gen. sing. f. Skr. *vid-úṣ-yās* Gr. *ιδ-εία*, Gr. pl. *ιδέοι* *βιδυοι* (see 4), Goth. *bēr-us-jōs* m. 'parents', gen. sing. f. Lith. *vilk-us-ios* O.C.Sl. *vlūk-ūšę* gen. sing. m. Lith. *vilk-us-io* O.C.Sl. *vlūk-ūš*. Cp. further the Ar. nom. sing. in *-uṣ*: Skr. *vid-úṣ* Avest. *vid-uṣ* *mamas-i* and other like forms, compare perhaps Oso. *sipus* 'sciens' and O.C.Sl. *vlūkū* (see below), and again the comparative formation Skr. *vid-úṣ-tara-* Avest. *jāger-buṣ-tara-*.

Lastly, I regard it as probable

6. That the strong cases of the masc. (except the nom. sing.) had *-uos-*, where the tense-stem bore the accent: acc. sing. Avest. *vid-rānsh-em*.

It will be remembered that we have regarded *-ies-* as an extension of *-iō-*, and assumed the existence, side by side with *-ies-*, of a form *-ien-* with the force of a comparative suffix (§ 135 p. 430). In the same way, I regard *-ues-* as an extension of *-uo-* (cp. Skr. *pak-vá-* Lut. *ar-co-s* *pacuo-s* *perspicuo-s* *residuo-s* and the like, see G. Curtius, *Ber. d. sächs. Ges. der Wiss.*, 1885, p. 432¹⁾), and I assume the existence of a parallel form *-uet-*, made by the addition of the *-t-* (*-et-* *-ot-*) discussed in § 123 p. 389 f. This *-uet-* appears in Greek and Gothic: Gr. acc. sing. *νιδ-ότ-α* gen. sing. *νιδ-ότ-ος* etc., Hom. *τεδνῆ-ώτ-α*, Goth. *veit-vōd-* 'witness'; *veit-vōd-*: **vid-uēs-* = Goth. *mē-nōp-*: **mē-nes-* (Lith. gen. *mēnes-io*), see § 123 p. 393 f. The form *-uōt-* was originally proper to the nom. sing. masc., and the phonetic coincidence of *-uōs* and *-uōt-* in Greek produced there the contaminated declension. I doubt, however, whether this was also the origin of the Skr. *-vat-* in loc. pl. *vid-vāt-su* instr. pl. *vid-vād-bhiṣ* nom. acc. neut. *vid-vāt*. We saw in § 127 p. 405 that in protoethnic Aryan these participles

1) We have the two side by side in **āi-uēs-* **āi-uo-* § 116 p. 362 f. § 133 p. 423.

coincided with the *vant*-stems in the formation of the nom. and voc. sing. masc.: *-yās* and *-yas*. Now pr. Ar. **-uś-śu* loc. pl. and **-uś-bhiś* instr. pl. (Avest. *vīd-ūš-biś*) must have regularly become in Sanskrit **-uśśu* and **-uśbhiś*, and similarly, **-yas-su* and **-yas-bhiś* (if *-yas-* had taken the place of *-uś-* before the phonetic change of *ś* and *z* came into operation) must have become *-vatsu* and *-vadbhiś* (I § 557 p. 412, § 591 p. 448). In either case, especially in the latter, a new and closer phonetic relation to the *vant*-stems was established. If **-uśśu* **-uśbhiś* arose first, then it must have been just the association with the *vant*-stems that superseded these terminations by *-vat-su* *-vadbhiś*¹). The neuter form *vid-vāt* and the post-Vedic *vidvattara* 'wiser' *vidvattā-* *vidvatta-m* 'erudition' were further results of this connexion.

Now whence comes the nasal in Skr. *-vās-*? To explain this as we explained the nasal in Skr. *-yās-* (p. 431) as being derived from a form *-yen-* parallel to *-yes-*, is hardly probable, because there are no participial forms corresponding to the Greek comparative *uñor -oro*; and the like. I conjecture that in early Sanskrit the nasal passed from *-vant-am* *-vant-as* to the nom. sing. in **-cās* (see § 127 p. 405), **agni-vās* becoming *agni-vās* (*-vān*), and thence passed on to the participles, first *vid-vās*, then *vid-vās-am* and so forth; it is possible also that *-vant-am* had a direct influence upon **-cās-am*.

And lastly, the *vant*-stems may have given rise to the later formation of the voc. sing. in *-van* instead of *-vas*, having first exchanged *-vas* for *-van* in their own system.

In Lithuanian we find *vilk-ės* beside *dā-rės*, Pruss. *laipinn-ons* beside *klanti-uuns*, O.C.Sl. *vlūk-ū* beside *da-vū*, similarly gen. *vilk-us-io* beside *dā-vus-io*, *vlūk-ūša* beside *da-vūša*. In the nom. sing. the consistent absence of *v* after the consonant may have been caused by the fact that this sound regularly disappeared after certain consonants (cp. I § 184 p. 180 l.)²); the form which the suffix took in these instances was then applied generally to all tense-stems that ended in a consonant. At the same time the absence of the *v* in the other cases (*vilk-us-io* *vlūk-ūša* etc.) may have helped in forming the type. In the case of Slavonic however, we have further to take into account the possibility that there existed a nom. in **-us* (cp. Skr. *vid-ús* etc. p. 440): *-ā* may be the regular phonetic representative of this ending. Lith. *-vens -ens*, *-vės -ės* replaced **-vės* **-ēs* through the influence of the present form *-ans -as* (*-ens* probably arose first, on the model of *-ans*, then *-vens* likewise); and a further consequence was that the neuter of the preterite in *-vę -ę* was formed upon the neuter of the present in *-ą*. The Prussian *-uuns -ons* (*-uns -ons*) is a similar analogical formation; but it remains an open question whether the original

1) This association prevented the development of forms parallel to the loc. pl. *mahiyassu* and the instr. pl. *mdhiyabhiś* (see I § 557 Rem. p. 412, § 591 Rem. 2 p. 448).

2) In l. 18 of this page read 'after initial *s-* (*sz-*)' instead of 'before'.

form here was **-ues*, whose *e*-vowel, after the insertion of the nasal, became *o* (*u*) because of the preceding *u*-sound, or whether we should take Idg. **-uōs* as our starting-point. In Slavonic we have masc. *-rū -ū* and neut. *-vū -ū*, just as in the present *-y* serves for both genders: as here *y* passed from the masc. to the neut., so probably did *-rū -ū* in the preterite, the old neuter form falling out of use. If now *-ū* = Idg. **-us*, it is a very natural suggestion that *-vū* arose from a contamination of **-us* and **-ues* or **-uōs*. But *-rū* may have arisen in the same way as *-ñ* (p. 429 ff.): if so, there once existed side by side masc. *-rū* = Idg. **-uōs* and neut. **-eo* = Idg. **-uos*; **-uo* produced the masc. *-rū* and was itself afterwards driven out of the field by *-rū*. Gen. Lith. *dū-rus-io* O.C.Sl. *dā-rūsio* owe their *r* to the nom. (we should expect **d-us-io* **d-ūsā*); Lith. *būvusio* O.C.Sl. *byvūsā* (beside *bū-ves by-vū*) are to be analysed as *būc-usio byc-ūsā* (instead of **būc-ūsā*), and thus these forms may have helped to give currency to the formations *dāvusio* etc. O.C.Sl. *chvaljī chvaljīsa* for **chvaljū* **chvaljūs* (later *chvalirū chvalirūsā*) follow the type of the non-derivative verbs, ep. part. pret. pass. *chvaljenū* like *cedenū* (Wiedemann, Beitr. zur altnbg. Conjug. 134).

It is to be hoped that the explanations advanced here and on p. 429 ff. will not meet with the fate which has befallen J. Schmidt's attempt to elucidate the same difficult theme, and be regarded as 'final'. We are still, I think, some distance, perhaps a very considerable distance, from a final conclusion.

Idg. Skr. *ri-rik-vās-* Gr. *λε-λοιπ-ός* Lith. *lik-es*, *✓leig-* 'leave at liberty, leave'. Skr. *bu-bhuj-vās-* Gr. *πε-γεργ-ός* Lith. *būg-es*, *✓bheug-* 'bend, (bend aside, extricate oneself, fear)'. Skr. *ba-bhū-vās-* Gr. *πε-γευ-ός* Lith. *bū-ves* O.C.Sl. *by-vū*, *✓bhey-* 'become'. Skr. *ma-mṛ-vās-* (*ma-mṛ-ūṣ-*) Lith. *mār-es* O.C.Sl. *mār-ū*, *✓mer-* 'die'. Skr. *ādi-vās-* (*ad-ūṣ-*) Gr. *ἐδ-ηδ-ός* Lith. *ēd-es* O.C.Sl. *jad-ū*, *✓ed-* 'eat, devour'. Skr. *da-d-vās-* *da-dī-vās-* *da-dā-vās-* (*da-d-ūṣ-*) Lith. *dā-ves* O.C.Sl. *dā-vū*, *✓dō-* 'give'. Skr. *ta-sthi-vās-* (*ta-sth-ūṣ-*) Gr. *ἐ-στα-ός* *ἐ-σταός*, *ἐ-στει-ός* *ἐ-στειός* O.C.Sl. *sta-vū*, *✓stā-* 'stand'.

Aryan. Skr. *ci-kit-vās-* *ci-kit-ūṣ-* Avest. *ci-kiṣ-wah-* *ci-ciṣn-* (a re-formation in place of **cicit-ūṣ-*) beside Skr. perf. *ci-kēt-* 'he knows, discerns', ep. *ci-kit-* instead of *ci-cit-*, I § 448 Rem. p. 333. Skr. *bu-budh-vās-* *bu-budh-ūṣ-* beside *bu-bōdh-a* 'he awoke, noticed, marked': Lith. *pa-būdēs* 'awake', *✓bheydh-*. Skr. *ūci-vās-* *ūc-ūṣ-* Avest. *vaok-uš-* beside Skr. *u-vāc-a* *va-vāc-a* 'he spoke', *✓ueq-*. Skr. *va-vṛt-vās-* *va-vṛt-ūṣ-* beside *va-vārt-a* 'he turned': Lith. *vir̃t-es* 'overturned, having altered oneself', *✓uert-*. Avest. *vā-ver'z-uš-* from *var'z-* 'perform, execute':

Gr. *ἐ-οργ-ώς, √ *uerǵ-*. Skr. *ca-kr-váš-* *ca-kr-úš-* beside *ca-kār-a* 'he made', √ *qer-*. Skr. *va-van-vás-* *va-vn-úš-* Avest. *va-van-vah-* *vaon-uš-* from Ar. *van-* 'gain', ground-form **ue-mu-ues-* **ue-un-us-* (I § 229 p. 195). Skr. *ja-ghan-vás-* (later also *ja-ghni-vás-*) *ja-ghn-úš-* from *han-* 'strike, slay': Lith. *gñ-ęs* 'having driven (cattle)' O.C.Sl. *žñ-ŭ* 'having cut off, harvested', √ *ghen-*. Skr. *ja-gan-vás-* (later also *ja-gmi-vás-*) *ja-gm-úš-* Avest. *ja-γm-uš-* (cp. I § 199 Rem. 2 p. 168, § 225 p. 192 f.): Gr. *βε-βα-ώς* no doubt instead of **βεβαν-(F)ως* (cp. the last-mentioned passage, and the Greek section below), Lith. *gim-ęs* 'having come into the world' (I § 249 p. 204), √ *gem-*. Skr. *bi-bhī-vás-* *bi-bhy-úš-* Avest. *bi-wi-vah-* beside Skr. *bi-bhdy-a* 'he was afraid', √ *bhej-*. Skr. *śu-śru-vás-* *śu-śruv-úš-* beside *śu-śrāv-a* 'he heard', √ *kley-*. Skr. *pa-pti-vás-* *pa-pt-úš-* beside *pa-pāt-a* 'he shot through the air, flew': Gr. *πεπτιώς* for **πε-πτα-ώς* (*πε-πτηώς* *πε-πτεώς* are later formations following the perfect of *στᾶ*), √ *pet-*. Skr. *sēdi-vás-* *sēd-úš-* beside *sa-sād-a* 'sat', *sēd-* = Avest. *hazd-* I § 591 p. 447: Lith. *sēd-ęs* 'having seated oneself', √ *sed-*. Avest. *ta-ḥk-uš-* beside *tac-* 'run' (I § 473 p. 349): O.C.Sl. *tek-ŭ* 'having run, flowed'. Skr. *da-d-vás-* (*da-di-vás-* *da-dā-vás-*) *da-d-úš-* Avest. *da-ḍ-vah-* *da-ḥ-uš-* 'δεδω-κώς': Lith. *dā-ęs* O.C.Sl. *da-vŭ*, √ *dō-* 'give'. Skr. *ja-jñi-vás-* *ja-jñ-úš-* and *jān-úš-* beside *ja-jñāu* 'he knew' pres. *jā-nā-ti*: O.C.Sl. *zna-vŭ* beside *zna-ti* 'to know'.

Greek. *δει-ώς* *δει-via* *ιδ-vŭa* beside *οἶδ-ε* 'he knows': Skr. *vid-vás-* *vid-úš-* beside *véd-a* 'he knows', √ *ueid-*; cp. also Goth. *veit-vōþ-s* 'witness' p. 440. *εἰκ-ώς* *οἶκ-ώς* *ἐοικ-ώς* beside *εἶοικ-ε* *οἶκ-ε* 'it is like, resembles, appears', *τε-τευχ-ώς* 'prepared, made ready' beside *τί-τυκ-ται* *τε-τεύχ-αται*. *ἐληλουθ-ώς* *εἰληλουθ-ώς* beside *εἰλήλουθ-ε* *ἀπ-ελήλυθ-ε* 'is come'. *πε-πονθ-ώς* *πε-παθ-vŭa* beside *πέ-πονθ-ε* 'he has suffered', *πενθ-*. *τε-τροφ-ώς* *τε-τραφ-ώς* beside *τί-τροφ-ε*, *τέ-τραφ-ε*, pres. *τρέπω* 'I turn'. *δε-δορκ-ώς* beside *δέ-δορκ-ε*, pres. *δέρκο-μαι* 'I see': Skr. *da-dṛś-vás-* *da-dṛś-úš-*, √ *derk-* 'see'. *πε-πορδ-ώς* beside *πί-πορδ-ε* 'pepedit': Lith. *pėrd-ęs* Lett. *pi'rd-is*, √ *perd-*. *δι-εφθορ-ώς* beside *δι-εφθορε*, pres. *δια-φθείρω* 'I destroy'. *γε-γον-ώς* beside *γέ-γον-ε* pl. *γέ-γα-μεν*, aor.

ἐ-γέν-ε-το 'arose, became'; the parallel form γε-γα-ώς γε-γα-εῖα, like με-μα-ώς (✓ *men-*) and βε-βα-ώς (✓ *gem-*), was a new formation suggested by γέ-γα-μεν (μέ-μα-μεν βέ-βα-μεν) etc. and modelled upon ἐ-στα-ώς: ἐ-στα-μεν. δε-δι-ώς beside δέ-δι-μεν 'we feared' 1. sing. δέιδω i. e. δέδω for *δέ-δω(ι)-α, ✓ *du-ei-pe-qu-ώς*: Skr. *ba-bhā-vās-* etc., see p. 442 above. τε-τοχ-ώς beside ἔ-τεκ-ε 'he begat'. ἐ-στα-ώς ἐ-στώς and ἐ-στη-ώς ἐ-στώς beside ἐ-στα-μεν 'we stand': Skr. *ta-sthi-vās-* etc., see p. 442 above. πι-πηγ-ώς beside πέ-πηγ-ε 'is fitted, fixed', ✓ *pak-pāḡ-s-te-she-ώς* σε-σαρ-εῖα beside σείρω 'I sweep'.

The suffix is sometimes found in derivative verbs, as Hom. κεχαρη-ώς beside κηάρη-μαι (aor. ἐ-χάρ-ην, pres. χαίρω 'I rejoice'). βεβαρη-ώς 'gravatus' beside pres. βαρέω, Boeot. inscr. *Fe-Fixon-miōntwn* = Att. *ὀκονομηκότων* beside *οἰκονομέω* 'I govern' (for -όντων instead of -ότων see below), all following the formation of τεθνη-ώς κε-κμη-ώς and the like. Cp. O.C.Sl. *želē-nŭ*.

It was further extended to the *x*-perfect: δεδωκ-ώς beside δέ-δωκ-ε 'has given', ἐ-στηκ-ώς beside ἐ-στηκ-ε 'stands', τετίμηκ-ώς beside τε-τίμηκ-ε 'has honoured' and so forth.

The feminine forms in -εῖα -είας (see p. 440) appear in Doric dialects and in Attic: e. g. Heracl. ἐρρηγ-εῖα Ther. ἐστᾶκ-εῖα, Att. γεγον-εῖα.

It occurs in Homeric forms with -(f)ωτ- instead of -(f)οτς, whose ω was taken from the nom. sing. masc., e. g. πε-φν-ῶτ-α, με-μα-ῶτ-ες -ῶτ-ος, τε-θνη-ῶτ-α. Cp. μήσ-τωρ-α formed on the pattern of μήσ-τωρ § 120 Rem. p. 380, § 122 p. 386.

These perfect participles, like the other forms of the perfect stem, were remodelled on the analogy of the presents in -ω in different dialects, especially in those of the Aeolic group: e. g. Lesb. πεπληρώκοντα εὐεργετήκοισαν, Thess. ἐν-οικο-δομεικόν-τεσσι, Boeot. *FeFixon-miōntwn* (see above), Hom. κεκλήγοντες, Hesiod. ἐρρόγοντι, Pind. περρόκοντας, Delph. τετελευκᾶκούσας. Here it was a purely syntactic consideration, viz- the similarity of meaning (the Greek Perfect being a Present in point of time) that suggested this transfer to the system of the present-inflexion; the new feminine formations, on the other hand, such as Hom.

Att. *βεβῶσα*, Att. *ἐστῶσα τεθιῶσα*, Herod. *ἐστειῶσα*, with precisely the same endings as the pres. part. *τιμῶσα* and the like, were in part also determined by the contracted forms in *-ωτ-* (*ἐστῶτ-* for *ἐστάοτ-*, *τεθιῶτ-* for *τεθνήοτ-*) of the corresponding masc. and neut.; the *-ω-* of these feminines in *-ῶσα* was taken from the corresponding masc. and neut., the *-σα* from the pres. part. fem. I do not believe that *ἐστῶσα* is derived from a hypothetical **ἐστάουσα*.

Italic. An attempt has been made to trace this suffix in Lat. *cadaver* and *papaver*, the former being regarded as 'that which has fallen' (*cadō cada-bundu-s*, cp. *πτῶμα* 'corpse') or 'that which has been destroyed' (*cadamītās cassu-s* Skr. *kad-*, see Bersu Die Gutturalen und ihre Verbindung mit *v* im Lat. p. 170), the latter as 'that which is inflated' (*papula pampinu-s*), and both compared with participles like Gr. *κεκαρηγῶς* (Curtius, Das Verb der gr. Spr. II² 250). The suffix has also been traced in Lat. perfects like *sē-vī stra-vī amā-vī*, which have been regarded as examples of a crystallised periphrastic formation of the same kind as the Skr. fut. *dātāsmi* 'I will give' ('dator sum, daturus sum') (Curtius, Ber. d. süchs. Ges. d. Wiss., 1855, p. 421 ff., Schulze, Kuhn's Ztschr. XXVIII 266 ff.). Lastly, the same suggestion has been made for Osc. *sipus* 'sciens' (ī), as compared with a Lat. perf. **sēp-ī* equivalent to *sapui* (J. Schmidt, XXVI 372 ff.); its termination might have come from either *ibid.* Idg. **-us* or **-uōs* (cp. p. 440).

This suggestion is most plausible as applied to *sip-us*, least as applied to *sē-vī*.

In Germanic only a few isolated examples have survived. Goth. *bēr-us-jōs* pl. m. 'parents' ('they that have brought forth'), *✓ bher-*, cp. indie. 1. pl. *bērum* 1. sing. *bar*. A.S. *ēzesa ēzsa* O.Sax. *ēcso* m. 'owner' = Goth. **āig-us-ja* m., beside Goth. *āigan* 'to have, possess'. The suffix is *-us-jo-* as in the Gr. pl. *ιδιῶται*, gen. sing. Lith. *vilkusio* O.C.Sl. *vlūkūša* (p. 440).

Balto-Slavonic. Lith. *geid-ęs* beside *geidžiū* 'I long for, desire', O.C.Sl. *žid-ŭ* beside *žida žida* 'I wait, await'. O.C.Sl. *čit-ŭ* beside *čit-a* 'I reckon, esteem, honour'. Lith. *kirt-ęs* beside

kertù 'I hew, strike', O.C.Sl. *črit-ŭ* beside *črīt-a* 'I cut': Skr. *ca-kṛt-vās-* beside *kṛnt-ā-ti* 'cuts, splits', √ *qert-*. Lith. *mlė-ęs* beside *mėlžu* 'I milk', O.C.Sl. *mlŭz-ŭ* beside *mlŭza* 'I milk', √ *melg-*. Lith. *liūk-ęs* beside *linkstù* 'I bend myself', *leūk-ęs* beside *lenkiù* 'I bend', O.C.Sl. *lęk-ŭ* beside *lęka* 'I bend'. Lith. *mėn-ęs* beside *menù* 'I bethink me': Avest. *ma-man-uš* (p. 440) √ *men-*. Lith. *pìn-ęs* beside *pinù* 'I plait', O.C.Sl. *pŭn-ŭ* beside *pŭna* 'I stretch, hang', √ *(s)pen-*. Lith. *vėm-ęs* beside *cemiù* 'I vomit' Skr. *vēmi-vās-* beside Skr. *va-vām-a* 'he vomited', √ *uem-*. Lith. *mŭr-ęs* O.C.Sl. *mŭr-ŭ* 'dead', see p. 442 above. Lith. *vėr-ęs* beside *veriù* 'I open or shut the door' (Pruss. *et-wirjuns*) O.C.Sl. *vŭr-ŭ* beside *vŭra* 'I open or shut the door', √ *uer-*. Lith. *gėr-ęs* beside *geriù* 'I drink' O.C.Sl. *žŭr-ŭ* beside *žŭra* 'I swallow', √ *ger-*. O.C.Sl. *stŭr-ŭ* and *pro-strŭcŭ* (originally **stŭr-us-* : **stŭ-ues-*) beside *stŭra* 'I stretch', √ *ster-*. Lith. *vėž-ęs* O.C.Sl. *vez-ŭ* beside *vežù veza* 'veho': Skr. *āhi-vās- āh-uš-* beside indic. *u-vāh-a* 'vexit', √ *uegh-*. Lith. *dėg-ęs* O.C.Sl. *žeg-ŭ* beside *degù žega* 'I burn'. O.C.Sl. *pek-ŭ* beside *pek-a* 'I bake': Skr. *pēci-vās- pēc-uš-* beside indic. *pa-pāc-a* 'coxit', √ *peq-*. Lith. *sėd-ęs* beside *sėdu* 'I sit': Skr. *sēdi-vās-*, see p. 443 above. Lith. *dā-ęs* O.C.Sl. *da-vŭ* beside *dā-ti da-ti* 'to give': Skr. *da-d-vās-*, see p. 443 above. O.C.Sl. *dē-vŭ* beside *dē-ti* 'to lay', √ *dhē-*; Lith. *dėjės dėjusio*, following the pret. *dėjau*, inf. *dē-ti* 'to lay'. O.C.Sl. *sta-vŭ* beside *sta-ti* 'to place oneself', see p. 442 above, and compar. the Pruss. *po-stāuns* i. e. *-stāwuns* (cp. below, *klantŭcuns* beside *klantŭns*); Lith. *stojės stójusio*, following the pret. *stójau*, inf. *stó-ti* 'to place oneself, step'. Lith. *saus-ęs* Lett. *sus-is* beside Lith. *saustù* 'I become dry', O.C.Sl. *sŭch-ŭ* beside *sŭchna* 'I become dry': Skr. *śu-śuś-vās-* beside indic. *śu-śós-a* 'he became dry', √ *sauś-* (cp. I § 557 p. 413).

Just as the Lithuanian participles *dėjės* and *stojės* follow the preterite in *-jau*, so do the forms *mātes mēcziusio* (: pret. *macziaũ* pres. *mataũ* inf. *matý-ti* 'to see'), *válges vágjiusio* (: pret. *válgiau* pres. *válgau* inf. *valgy-ti* 'to eat'); where it should be observed, that *mātes vágės*, earlier *mātens vágens*, according to the regular phonetic laws must be referred to **matiens* **valgiens*

(I § 147 p. 131). Further examples of the same sort are *penējēs* beside *penējau* 'I nourished, fattened', *jēškójēs* beside *jēškójau* 'I sought'. On the other hand we find *u* in the Pruss. *klanti-wuns* 'having condemned' (*klanti-t* 'to condemn'), less correctly written *klantiuns*; and similarly *signauns* (*signa-t* 'to bless'), *teikūuns* (*teiku-t* 'to form, make') as well as the form *postāuns* quoted above must have had the termination *-uuns*.

O.C.Sl. *buždī* for **būd-jū* beside pres. *bužďa* inf. *budi-ti* 'to wake' *chvaljī* beside pres. *chvalja* inf. *chvali-ti* 'to praise' etc., are like Lith. *mātes mārziusio*; later we have *-ivū*, as *budivū chvalivū*. Cp. p. 442. *dēla-vū* beside *dēla-jā dēla-ti* 'to work'. *žēlē-vū* beside *žēlējā žēlē-ti* 'wish'.

MEANING CONVEYED BY THE SUFFIXES: NOUNS CLASSIFIED FROM THIS POINT OF VIEW.

§ 137. In the foregoing account of the formation of noun-stems (§ 59—136) our classification has been based upon the phonetic character of the formative suffixes. It will be useful to re-arrange the facts of this chapter in the history of noun-formation from the point of view of their meaning.

Considered in this respect the different suffixes have many points in common and are connected in many ways; all of which can be exhibited more clearly and studied more directly by a fresh survey.

The original meaning of the proethnic Indo-Germanic formative suffixes is unknown; accordingly the method by which we are to consider them must be based upon the logical categories which they generally serve to denote. We need not concern ourselves with the question whether any given suffix in its very oldest usage was, or was not, capable of fully expressing the idea which it helps to represent in those periods of the history of language which we are able to observe.

It is only a small proportion of the formative suffixes in which we can trace from the beginning a simple and clearly

defined function; as, for example, in the comparative *-tero-*. Most of them serve several purposes, and it is often impossible to reconcile the meanings of a particular suffix. It must be admitted, however, that it is far from certain whether in such cases we have really to recognise only one formative element. The same group of sounds may have more than one etymological origin, e. g. *-mo-* as a suffix of comparison (Lat. *summu-s* for **sup-mo-*) may have a different origin from *-mo-* in substantives like Lat. *fū-mu-s ani-mu-s* (§ 72 p. 170 ff.).

In the following sections there is no need to do more than emphasise the most important points. I have not attempted to make the survey absolutely comprehensive from any point of view.

Adjectives.

§ 138. Variation according to gender (masc. neut. fem.), and the formation of derivatives to denote comparison (degrees of comparison), are usually assigned as the chief characteristics of adjectives as such in the Indo-Germanic languages. However these types of inflexion are all found in substantives also, so that no hard and fast line can be drawn between the two groups.

The suffixes which appear in adjectives in the protoethnic and later periods are all found in substantives as well. The question then arises, whether the substantival or the adjectival use is the older. In some cases the latter is undoubtedly earlier, e. g. Lat. *caprina* in *pellis caprina* and the like, compared with *caprina* 'goat's flesh' (§ 154). In another group of forms, however, the substantival meaning seems to have been the older e. g. Skr. *māhas-* 'greatness' compared with *mahás-* 'great', Gr. *ψεῦδος* 'deceit' compared with *ψευδέας* 'deceitful' (§ 155). In other instances again, no distinction is possible *a priori*, e. g. in Avest. *per'nā-* f. 'plena' and 'plenitudo, plenitas' (§ 158).

Many Indo-Germanic adjectival suffixes have no definite meaning to distinguish their own class of adjectives from others. The most sharply defined are those with a comparative meaning. These we will consider first.

§ 139. Adjectives with Comparative meaning. The elements of meaning which are really distinctive of this class are first the idea of contrast by comparison, and secondly the idea that what is predicated by the adjective is only true in a relative and limited sense.

-io- in **al-io-s* 'alius', **medh-io-s* 'medius' **me-io-s* 'meus' and the like simply helps to express the idea of contrast by comparison, which is given by the root itself. See § 63, 3 p. 132 f. It may be conjectured that *-io-* had etymologically nothing to do with the notion of comparison, but that in the earliest or some of the earliest of these adjectives the suffix came to participate in this idea, which was really expressed by the root of the word (cp. § 57 p. 104 f.); and that it was then used independently in other words with the same force.

-ies- (*-ien-*) which is probably an extension of *-io-*, expresses primarily contrast by comparison in the widest sense. The adjectives formed with this suffix came into close connexion with other adjectives of the same root and the same root-meaning, where the idea of relativity was wanting; hence they were applied to express not so much absolute contrast (as that of 'new': 'old') as limited contrast ('new in comparison with something else which must also be called new') A further limitation of meaning appeared with the *to* derivative *-is-to-* (§ 81 p. 242 ff.). A distinction in usage sprang up between *-ies-* (*-is-*) and *-is-to-*, which is analogous to that between *-ero-* *-tero-* and *-mo-* (*-ymo-*) *-tymo-*: whilst *-is-to-* denotes comparison with several other objects, *-ies-* (*-is-*) is confined to comparison with one other. E. g. comparative Skr. *lāgh-īyas-* Avest. *renj-yah-* Gr. *ἐλάσσων* and superlative Skr. *lāgh-iṣ-ṭha-s* Gr. *ἐλάχιστος* beside Skr. *lāgh-ū-ṣ* Gr. *ἐλαχίς* ('agile, small, little'). In formations like Gr. *ἀριστερός* 'left', as contrasted with 'right' (§ 75 p. 190 ff.), the notion of contrast with a single other thing is still further expressed by the addition of *-tero-*; for this suffix, as we shall see, was especially used in the Indo-Germanic period and later to express ideas which are contrasted absolutely. See § 135 p. 427 ff.

-ero- and *-tero-* seem to have been first used only in words expressing conceptions of space and time, and in certain pronouns of a different meaning. In these the comparison contains only one notion, that of strong contrast, like 'below': 'above'. **adh-ero-* 'lower': Skr. *ádharma-*, O.H.G. *undaro*; **en-tero-* 'inner': Skr. *ántara-*, Armen. *ender-k*, Gr. *ἐντερο-ν*, Lat. *inter-ior*, O.C.Sl. *jětro*. **qo-tero-* 'which (of two)?': Skr. *katará-* Gr. *νότερο-ς*, Umbr. *podruh-pei*, Goth. *hvaþar*, Lith. *katrù-s*. Add certain examples found in single languages, as Armen. *mer* O.Ir. *ar n-* Goth. *unsar* 'our', Gr. *ἡμέτερο-ς* Lat. *nos-ter* 'our' (contrasted with 'your'), Gr. *ἀγρότερο-ς* 'dwelling in the open fields, wild', thus having the sense of *ἄγριο-ς*, but originally distinguished from it by the reference to its opposite *ἄστυ*. In Aryan and Greek *-tero-* then became a common comparative suffix for adjectives of any formation and meaning, like Skr. *amá-tara-* Gr. *ὠμότερο-ς* compared with *amá- ὠμό-ς* 'raw', and here there was comparison no longer with the absolutely opposite idea, but with the notion expressed by the so-called positive: probably this process was completed partly through association with the other group of comparatives formed with *-ies-*, such as Skr. *sodd-īyas-* Gr. *ἡδ-ιω* (acc. sing.). In the older stratum of comparatives, like **en-tero-* **ni-tero-*, it is seldom that the idea of relative contrast appears, as in Gr. *πρότερον ἢ* 'before that' Osc. *pruter-pan* 'prius quam'. See § 75 p. 188 ff.

-to- *-is-to-* *-mo-* (*-ημο-*) *-t-ημο-*. *-to-* and *-mo-* are found first in numerals, where they were used to express position in a numerical series, e. g. **deknto-* 'decimus': Gr. *δέκατο-ς* Goth. *taihunda* Lith. *desziūta-s* O.C.Sl. *desetŭ*, **septmo-* **septηmo-* 'septimus': Skr. *saptamá-* Gr. *ἐβδομο-ς* Lat. *septimu-s* O.Ir. *sechtm-ad* Lith. *sėkma-s* O.C.Sl. *sedmy-jŭ*. Thus these suffixes were suited to set one particular idea in comparison with several others separately. Hence *-is-to-* was formed beside *-ies-* *-is-*, to express comparison with a number of objects, ep. e. g. Gr. *μέγιστος ἐγὼ ἑμῶν* 'I am greater than any one of you' (*μεγίστων ἐγὼ ἑμῶν* 'I am greater than you', *ἑμῆς* being regarded as a single notion), *πολύμωρον ἀξιολογώτατον τῶν προγεγενημένων*

'more remarkable than any one of the preceding wars' (Thucyd I 1). *-mo-* passed from the numerals to those stems which expressed ideas of space and time and contained the suffix of contrast *-ero-*, forming either (in contrast to *-ero-*) the true superlative, as **up-mo- *up-ṃmo-* 'uppermost, highest' (Skr. *upamá-* Lat. *summu-s*) beside **upero-*, or, as in Gothic, a general expression of comparison, e. g. Phil. 2, 3 *sis aiúhuman* 'se superiorem' (from which was derived the normal superlative *aiúhum-ist-s*). In the same way, *-ṃmo-* ranged itself beside *-tero-*, and in Aryan it proved quite as fertile a suffix. See § 72 p. 166 ff., § 73 p. 177 ff., § 81 p. 242 ff.

In Lettish *-aka-* became the usual suffix of comparison; *sa'ld-ák-s* 'sweeter'. See § 89 p. 273 f.

§ 140. Verbal Adjectives. Under this head I include all such adjectives as have a more or less participial character, cp. § 144. Here we may make several subdivisions.

1. Forms with Active Meaning.

-nt-. **bhero-nt-* 'bearing': Skr. *bhárant-* Gr. *φέρων* Lat. *ferēns* Goth. *baírand-s* O.C.Sl. *berý*. See § 126 p. 396 ff.

-ues-, with the implied idea of a completed action (cp. 3 below). Skr. *ririk-vás-* Gr. *λελοιπ-ώς* Lith. *lik-ęs* 'having let free, left'. Goth. *bēr-us-jōs* 'parents' ('those who have brought us into the world'). See § 136 p. 438 ff.

Other forms, found in single languages, are: Skr. *-vant-*, in *kytá-vant-* 'factum habens, having done', see § 127 p. 408. Slav. *-lo-* in *bi-lŭ* 'having smitten', see § 76 p. 212 ff.

2. Forms with Medial and Passive Meaning.

-mno- -meno- -mono- had from the earliest period the same meaning as the medial personal-endings. Skr. *yája-māna-* Avest. *yaza-mna-* Gr. *ἀζό-μενο-ς* partic. of *yája-tē yazai-tē āζεται* 'he honours'. See § 71 p. 163 ff.

-mo- has the same meaning as *-mno-* in Umbro-Samnitic and Balto-Slavonic. Umbr. *persnih-mu* 'precamino' Osc. *censa-mu-r* 'censemino', Lith. *vėžā-ma-s* 'being carried, fit to be carried'. See § 72 p. 166.

Ar. *-āna-* is used as a medio-passive suffix, as in Skr.

dúh-ana-s dúgh-ana-s, beside the act. indic. *dōgdhi* 'he milks'. See § 67 p. 151 f.

3. Forms expressing completed action and hence a state, chiefly passive.

-to-. **klū-tó-* 'heard, famed': Skr. *śrutá-* Gr. κλυτός Lat. *in-clutu-s* O.Ir. *cloth* O.H.G. *Hlot-hari* ('Lothair') *hlūt* ('loud'). **gṃ-tó-*: Skr. *gatá-* 'gone, gone forth, come' *á-gata-* 'untrodden', Gr. *παρός* 'trodden, passable', Lat. *circum-ventu-s*. See § 79 p. 218 ff.

-no- -*yno-* and in some of the languages also -*eno-ono-*. **pľ-nó-* **pľ-nó-* 'filled, full': Skr. *pūrṇá-* Avest. *per'na-* O.Ir. *lan* Goth. *full-s* Lith. *pilna-s* O.C.Sl. *plünū*; Gr. *στυγρός* 'hated'; Lith. *kił-na-s* 'exalted'. Goth. *fulg-in-s* 'hidden'; O.C.Sl. *vez-enū* 'carried'. Goth. *vaurþ-an-s* O.H.G. *gi-wort-an* 'become'. See § 65 p. 138 ff.

-*ues-*, with active sense, see 1 p. 451.

4. Forms expressing the feasibility, possibility, or necessity of the action; passive.

-i-o- -*iḡo-*. Skr. *yáj-ya-s* Gr. *ἄγιος* 'venerandus'. Skr. *dṛś-ya-s* *dārś-īya-s* 'visible, worth seeing'. Gr. *στυγίος* 'abominable, detested'. Lat. *ex-im-iu-s* 'eximendus, distinguished'. Goth. *brūk-s* (stem *brūk-ja-*) O.H.G. *prūchi* 'useful'. See § 63, 1 p. 123 ff.

-*tno-* -*tyno-*. Lat. *dandu-s* 'who is to be given'. Lith. *siuk-tina-s* 'torquendus'. See § 69, 2 p. 161 ff.

Further the words formed with -*to-* (3) seem to have sometimes implied this secondary meaning even in Indo-Germanic, primarily however in negative usages. It is found especially in Greek, as *λιτός* 'that may be freed or loosed'. See § 79, 1 p. 220.

Forms peculiar to single groups of languages: Skr. -*tva-*, *kár-tva-s* 'faciendus', see § 61 p. 116. Skr. -*tav-ya-*, *kar-tavyà-s* 'faciendus' see § 63 p. 126 f. Gr. -*τεο-* clearly for -*τεφο-*, *διωκ-τέος* 'who is to be pursued', see § 64 p. 135 with Rem. 1. Occasionally this meaning can be seen in the *no-* adjectives (3), as Gr. *άγρός* 'venerandus, deserving of honour, holy', *σμερδρός*

'timendus, terrible', ἔδανός-ς 'eatable'; similarly in Lith. *-ma-* (2), as *vėža-ma-s* 'fit to be carried, transportable', *sūka-ma-s* 'capable of being twisted'.

§ 141. Denominative Adjectives. The relation to the noun from which they are derived may be any one of many different kinds: the word may mean 'made of the same material', 'belonging to the same species', 'derived from', 'possessing', 'being provided with' etc.

-ino- -īno- -a^oino-. This is especially used with the meaning 'made or consisting of', 'arising from', 'belonging to the same kind as' that which the original noun expresses. Gr. *κηγ-ivo-ς* 'beechen' (*κηγός-ς*). Lith. *auks-ina-s* 'golden' (*auksa-s*). Avest. *bawr-aēni-š* Lith. *bebr-in-i-s* Lat. *fibr-īnu-s* 'coming from the beaver' (e. g. fur). Skr. *sat-inā-s* (*sánt-*) Gr. *ἀληθ-ινό-ς* (*ἀληθής*) O.H.G. *war-īn* (*wār*) 'truthful'. See § 68 p. 155 ff.

-uent-. The chief meaning is 'provided with' that which the original word denotes; more rarely it means, 'of the same kind'. Skr. *viśā-vant-* 'poisoned, poisonous' Lat. *vīrōsu-s* 'poisonous' (*viśā-m vīru-s* 'poison'). Gr. *οἰνό-εις* 'made from or with wine', Lat. *vīnōsu-s* 'full of wine, like wine' (*οἶνο-ς vīnu-m* 'wine'). Skr. *putrá-vant-* 'having a son or sons' (*putrá-s* 'son'). Gr. *χαρί-εις* 'graceful, gracious' (*χάρι-ς* 'grace'). Lat. *verbōsu-s* 'full of words, diffuse' (*verbu-m* 'word'). See § 127 p. 404 ff.

-tno- -tyno-. This is found in adjectives formed from temporal adverbs. Skr. *pra-tná-s* 'ancient, old', *nā-tna-s* *nā-tana-s* 'present'. Lat. *diā-tinu-s*, *crās-tinu-s*, Lith. *dabar-tina-s* 'present'. See § 69, 1 p. 160.

-go- occurs in adjectives derived from adverbs, which chiefly express ideas of space. Skr. *nī-ca-* 'low, going downwards', O.C.Sl. *nī-c-ŭ* 'pronus'. Lat. *reci-procu-s* orig. 'turned backwards and forwards'. Besides these, *-go-* and also *-iqo-* are found in adjectives formed from substantives; the relation to the original word varies very widely. Skr. *sūcī-ka-s* 'pricking' (*sūcī-* 'needle'), *sīndhu-ka-s* 'arising from the Indus' (*sīndhu-ś*), Lat. *amni-cu-s* (*amni-s*), O.Ir. *sūile-ch* 'oculus' (*sūil* n. 'oculus'), Goth. *stáina-h-s* O.H.G. *steina-g* 'stony' (Goth. *stáin-s* O.H.G. *stein* 'stone'). Skr.

paryāy-iká-s 'strophic' (*paryāyá-s* 'strophe'), Gr. *νυμφ-ικός* 'bridal' (*νύμφη* 'bride'), Lat. *bell-icu-s* (*bellu-m*), O.Ir. *cuimn-ech* 'mindful' (*cuman* 'remembrance, memory'), O.H.G. *icnot-ig* 'furious' (*icnot* 'fury'). See § 86 p. 255 ff., § 87 p. 260 ff.

The following examples of the proethnic methods of forming adjectives will further serve to shew how widely the relation of the derived to the original word may vary in different cases.

-iō- -iō-. **patr-iō-s* 'relating to one's father, fatherly' (**patér-* 'father'): Skr. *pítṛiya-s* Gr. *πάτριος* Lat. *patriu-s*. Skr. *uśas-ya-s* 'dedicated to the dawn' Gr. *ἠοῖος* 'early, eastern' (*ὑάδα-ἠώς* 'early light, dawn'). Skr. *nāv-īya-s* 'navigable', Gr. *νηϊος* 'belonging to a ship, consisting of ships' (*nāv- νη(ς)* 'ship'). The adjectival usage is seen with special clearness in compounds like Gr. *ὁμο-πάτρ-ιος* O.Icel. *sam-fedr* 'having the same father' compared with the Gr. *ὁμο-πάτωρ* O.Pers. *hama-pitar-*, with the same meaning. See § 63, 2 p. 125 ff.

-no-. Skr. *strāt-ṇa-s* 'feminine' (*strī-* 'woman'). Gr. *ἀλγερ-ός* 'paining, painful' (*ἄλγος* 'pain'), Hom. *ἐραυρός* 'lovely' (*ἔραως* 'love'). Lat. *aēnu-s* (*aes*), *ilīgnu-s* (*ilex*), *patermu-s* (*pater*). Skr. *purā-ṇá-* 'ancient' (*purá* 'earlier, before'): Umbr. Osc. **kom-no-* n. 'τὸ κοινόν' (*kom* 'cum'); Lith. *jáu-na-s* O.C.Sl. *ju-nū* 'young' (*jaū ju* 'already, by this time'). See § 66 p. 139 ff.

-ro-. Avest. *taṇ-ra* (cp. § 74 p. 182 footnote). Mid.Dutch *deemster* O.H.G. *dinstar* 'dark' Lith. *tams-ra-s* 'bay-coloured' (Skr. *támas-* n. 'darkness'). Gr. *οἷν-ρός* 'mournful' (*οἷζές* 'mourning'), *φοβ-ρός* 'fearful' (*φόβος* 'fear'), *ρροσ-ρός* 'dewy' (*ρρόσος* 'dew'). See § 74 p. 179 ff.

Particular uses in the separate groups of languages: Ar. *-a-* is especially frequent with the meaning of origin, as Skr. *savitṛ-á-s* 'sprung from savitar', but also denoting every kind of relation, e. g. Skr. *mānas-á-s* 'mental' (*mānas-* n. 'mind'), see § 60 p. 112 f. Ar. *-in-*: Skr. *cittin-* 'intelligent' (*cittī-* 'intelligence'), *parṇin-* Avest. *per'nin-* 'winged'. (Skr. *parṇá-m* 'wing'), O.Pers. *viṣin-* 'belonging to a clan (*viṣ-*)', see § 115 p. 357 f. Skr. *-nu-*: *rōcīṣ-ṇú-* 'shining' (*rōcī-* 'light'), *kraviṣ-ṇú-* 'greedy of raw flesh' (*kravi-*), see § 106 p. 320 f. Gr. *-ιμο-*, especially with the

meaning 'proportioned, suited to' that which the original word denotes; as *vóμ-μo-ς* 'suited to law, legal' (*vóμo-ς* 'law'), see § 72, 3 p. 174. Gr. *-συνo-*: *δουλό-συνo-ς* 'subject, in service' (*δοῦλο-ς* 'servant'), see § 70 p. 163. Lat. *-ali-* *-ēli-* *-īli-* *-ūli-*: *oītali-s*, *fidēli-s*, *hostili-s*, *idali-s*, see § 98 p. 292. Kelt. *-ako-*, as O.Ir. *marc-ach* 'equester' (*marc* 'horse'), see § 89 p. 273. Germ. *-iska-* Lith. *-iszka-* O.C.Sl. *-isko-*: Goth. *judaiv-isk-s* 'Jewish' (*Judaiu-s* 'Jew') *gud-isk-s* 'divine' (*guf* 'god') O.H.G. *ird-isc* 'earthly' (*erda* 'earth'). Lith. *prūs-iszka-s* 'Prussian' (*Prūs-a-s* 'a Prussian'), *dēv-iszka-s* 'divine' (*dēva-s* 'God'), O.C.Sl. *kūnēž-iskū* 'princely' (*kūnēgū* 'prince'), *dēt-iskū* 'childish' (*dēti* f. pl. 'children'), see § 90 p. 276.

§ 142. Amongst denominative adjectives, those with a diminutival meaning form a special group: they denote what merely approximates to the description given by the original adjective, what is only similar to it. This meaning has often disappeared, so that the derived adjective has acquired the meaning of the word from which it was formed.

-lo-. Gr. *παχv-λό-ς* 'somewhat thick' (*παχv-ς* 'thick'), *ἡδv-λο-ς* 'sweetish' (*ἡδv-ς* 'sweet'). Skr. *bahu-lā-* beside *bahú-* 'thick'. See § 76 p. 198 ff.

-go-. **sene-go-* orig. 'oldish', beside **seno-* 'old': Skr. *sanaká-* Lat. *senex* (Goth. *sineig-s*). Skr. *anīyas-ka-* beside *anīyas-* 'thinner, finer', Lat. *prīs-cu-s* compared with *prior*, *melius-c-ulu-s* with *melior*, *nigri-cāre* with *niger*. **añghu-go-* orig. 'somewhat narrow', from **añghú-* 'narrow': Armen. *ancuk anjuk-* O.C.Sl. *azūkū* 'narrow'. See § 84 p. 252 f., § 88 p. 262 ff. Cp. also Lith. *-oka-*, as *saldóka-s* 'sweetish, fairly sweet', see § 89 p. 273.

With this must perhaps be classed *-go-*, Skr. *árbha-ga-* 'youthful' beside *árbha-* 'small, young', O.H.G. *alti-h* 'old' O.Sax. *lutti-c* 'small'. See § 91 p. 276 f.

Compare the substantival diminutives, § 153.

§ 143. Adjectives formed with primary suffixes whose original function cannot be clearly defined.

-o- **ney-o-s* 'new': Skr. *náva-s*, Gr. *νέo-ς*, Lat. *novo-s*, O.C.Sl.

novū. **saus-o-s*: Skr. *śū-ṣa-s* 'drying, parching', Gr. Ion. *αὖς*; Lith. *sausā-s* O.C.Sl. *suchū* 'dry'. See § 60 p. 109 ff.

-*u*-. **grr-u-s* (**gr-u-s*): Skr. *gurū-ṣ* 'heavy, violent, hard'. Gr. *βαρύς* Lat. *grav-i-s* Goth. *kauru-s* 'heavy'. **añgh-u-s* 'narrow': Skr. *āhū-ṣ* Armen. *ancu-k anju-k* Goth. *aggou-s* O.C.Sl. *azū-kū*. **syād-u-s* (**sud-u-s*) 'sweet, pleasant': Skr. *svadū-ṣ* Gr. *ῥῆν*; Lat. *suāv-i-s* Goth. *sut-s*. See § 104 p. 312 ff.

-*ro*- -*gro*-. **rudh-ró-s* -*gró-s* 'red': Skr. *rudh-irá-s* Gr. *ἐρυθρός* Lat. *rub-er* O.C.Sl. *rūd-rū*. **spə-ró-s*: Skr. *sphirá-s* 'fat, large, rich', Lat. *pro-sper*, O.C.Sl. *sporū* 'rich'. Skr. *cū-rá-s* 'shining, glorious, wonderful' O.H.G. *heit-ar* 'shining, clear, bright'. See § 74 p. 180 ff.

-*mo*-, excluding its participial function. (§ 140, 2). Avest. *gar'-ma* Lat. *for-mu-s* O.H.G. *war-m* 'warm', Armen. *jer-m* Gr. *θερμός* 'warm'. Skr. *tū-tu-má* Avest. *tā-ma* 'strong'; Skr. *tig-má* 'sharp', O.Ir. *lua-m* 'celox'. Goth. *rū-m-s* 'roomy'. Lith. *szir-ma-s* 'gray'. See § 72, 3 p. 170 ff.

-*yo*-: **gī-yo-s* 'living': Skr. *jīvá-s* Lat. *vīvo-s* Mod.Cymr. *byw* Goth. *giu-s* Lith. *gyva-s* O.C.Sl. *živū*. **ǵdh-yo-s*: Skr. *ārdhacá-s* Gr. *ὀρθός* 'upright', Lat. *arduo-s* 'steep', O.Ir. *ard* 'high, great, noble'. Skr. *pūr-ra-s* 'former, earlier', Gr. **ἡρώ-fo* in Dor. *ἡρώ* 'of yore', and other words, O.C.Sl. *prī-oy-jī* 'primus'. See § 64 p. 133 ff. In Latin and Germanic this suffix is used in a considerable number of adjectives denoting colour; which must be explained as due to the influence of a few examples (as **ǵhel-yo*:- Lat. *helvo-s* O.H.G. *gelo*), cp. § 57 p. 104 f.

The Relation of Adjectives to Participles.

§ 144. An adjective can be used to denote not only a quality inherent in the nature of a thing, but a transitory attribute, defined in regard to time according to the standpoint of the speaker: thus it comes to have somewhat of a verbal character, in other words it becomes a participle (*μετοχή*). Its verbal nature may include the power of governing a case, and of distinguishing different epochs of time, different kinds of action (momentary, continuous, inceptive), and Voice (*diathesis*, *genus verbi*). See § 140 p. 451 f.

In general the existence of adjectives as a class must necessarily precede that of participles. Where however we find purely nominal and purely participial values side by side in any one word, it would be incorrect to regard the former as in every case the older; for the participle may be again gradually reduced to a simple noun.

In many cases it is impossible to determine whether the nominal character of any given form dates from a time before the corresponding adjectival form had developed verbal uses, or whether a participle has been re-converted into a noun; e. g. in the case of Skr. *śāśvant-* Gr. *ᾗ-νᾱς* 'complete, whole, every' Skr. *bṛhánt-* 'exalted, high, great' (§ 126 p. 397 f.), Skr. *vid-vás-* 'heedful, full of knowledge' compar. *vidúṣṭara-* *vidvattara-* (§ 136 p. 438), and in the Skr. and Lith. *-to*-participles constructed with an adnominal genitive, as Skr. *ánuspaśṭō id bhavaty eṣō asya* 'conspectus est ille ab eo' (lit. 'eius'), Lith. *arklys suėstas vilko* 'equus devoratus a lupo' (lit. 'lupi'), cp. also *Διός-δοτος* (§ 79 p. 218 ff.).

The former transition, from a purely nominal to a participial use, may be assumed with certainty in a few instances in the separate languages; e. g. in the Sanskrit participles with *-vant-*, like *kṛtá-vant-* 'having done' (§ 127 p. 406), and in the Slavonic participles in *-lo-*, as *bi-lŭ* 'having smitten' (§ 76 p. 212). The connexion with the verbal system was established by the influence exerted on the meaning and usage of the adjectival forms in question by verbal forms derived from the same root, either those of the finite verb, or, sometimes, other participles previously formed. The process of transition was complete when analogous forms of the same kind could be made at will from other verbs in actual use.

Undoubted examples of the change from a participial to a purely nominal character are of frequent occurrence in later periods. Such are e. g. Gr. *ἐκών* 'willing' *μέλλον* 'future' Lat. *ē-loquēns sapiēns* Mod.H.G. *reizend* 'charming' (§ 126 p. 396 ff.), and the Gr. compar. *ἀσμεν-έστερο-ς* 'more glad' *ἐρρωμεν-έστερο-ς* 'stouter, stronger' (§ 71 p. 163 ff., § 75 p. 194).

Substantives denoting material things or persons (Concrete Substantives).

§ 145. Distinction of Sex. The *o*-suffixes served to indicate male creatures, e. g. **ékʷo-s* 'horse, stallion': Skr. *áśva-s* Gr. ἵππο-ς Lat. *equo-s* O.Ir. *ech*. Female creatures were distinguished by the *a*-suffixes and by *-iē- -ī-*, e. g. **ékʷa-* 'female horse, mare': Skr. *áśva* Lat. *equa* Lith. *aszva*; **u̯lq-iē-* 'she-wolf': Skr. *vṛkī* O.Icel. *ylg-r* O.H.G. *wulpa*. See § 59 ff. p. 107 ff., § 109 ff. p. 332 ff. It must, I think, be assumed, as I have already observed (in § 57 Rem. p. 104, cp. my essay on Gender there cited), that originally neither the *o*- and *a*-suffixes nor even *-iē- (-ī-)* had any connexion with animal sex; it is far more probable that in one or two words, perhaps in **genā-* 'woman' **māma-* 'mother' **s-tr-iē-* **s-tr-ī-* 'woman', the idea of female nature contained in the root of the word was imparted to the suffix, and that this led to the creation of such forms as **ékʷa-* beside **ékʷo-*, **u̯lq-iē-* beside **u̯lqo-*, to describe the female as distinct from the male animal. It was only through being contrasted with *-a-* and *-iē-* that the *o*-formation afterwards came to denote male sex. And it was still constantly and indeed primarily used to denote any given creature without reference to gender, e. g. ἵππο-ς 'horse'. See § 158.

§ 146. Names of kindred. The suffix most frequently used is *-er- -ter-*, as in **daiuér-* 'husband's brother-in-law' (Skr. *dēvár-* etc.), **syésor-* 'sister' (Skr. *svásar-* etc.), **pə-tér-* 'father' (Skr. *pítár-* etc.). See § 119 ff. p. 376 ff. This suffix in its origin had certainly nothing to do with the notion of kinship. From its accidental use in one or other of these nouns it was taken to form a series of words in which its function was to denote that idea. **pə-tér-* seems to have been originally a nomen agentis: 'protector'.

§ 147. Names of Animals. The use of *-bho-* in one or other of the words denoting animals, which had come down from the earliest times, led the Indians and the Greeks to employ

this suffix in other instances to form animal-names; e. g. Skr. *śarabhā-s* a fabulous eight-legged creature, Gr. *ἐλαφος* 'stag'. See § 78 p. 216 f.

In Germanic are found bird-names with Idg. *-go-*, as Goth. *ahak-s* 'dove' O.H.G. *habuh* 'hawk', which follows *cranuh* 'crane' (Armen. *krun-k*). See § 91 p. 277 and Kluge Nom. Stammb. p. 29.

§ 148. Names of parts of the body. *-en-* is found in a large number of proethnic names for parts of the body, though to begin with the suffix had no such meaning. It follows however that this use of it must have developed in the proethnic period, although we cannot tell which of the words containing it, e. g. Skr. *ūdh-an-* Gr. *ὤδ-α-(το-)* 'udder' Skr. *yak-ān-* Gr. *ἥπ-α-(το-)* 'liver', formed the type for the rest. It was still a living suffix with the same sense in the separate languages, e. g. Skr. *dōś-ān-* 'forearm', Avest. *nānēh-an-* 'nose'. See § 114 p. 344 ff.

§ 149. Nomina agentis.

-en-. Skr. *tákṣ-an-* Gr. *τέκτ-ων* 'carpenter, artificer'. Avest. *spas-an-* 'watchman', O.H.G. *speh-o* 'spy'. Lat. *ed-ō* O.H.G. *ezg-o* 'glutton'. Gr. *κραυγ-ών* 'screamer, wood-pecker'. Goth. *nut-a* 'fisher', O.H.G. *bot-o* 'messenger'. See § 114 p. 344 ff.

-ter-. Skr. *dā-tār- dā-tar-* Gr. *δο-τήρ δω-τήρ δώ-τωρ* Lat. *dā-tor* O.C.Sl. *da-tel-ī* 'giver'. Skr. *pā-tūr- pā-tar-* 'drinker', Gr. *οἶνο-ποτήρ* 'wine-drinker', Lat. *pō-tor* 'drinker, drunkard'. See § 119 ff. p. 376 ff.

-lo-. Gr. *κάπηλο-ς* 'huckster' *δείκηλο-ς* 'actor'. Lat. *figulu-s* 'potter' *legulu-s* 'gatherer, gleaner'. O.H.G. *putil* 'beadle' ('summoner') *brūt-pitil* 'a wooer's best man, suitor's advocate', *tregil* 'bearer'. Lith. *tekėla-s* 'grindstone turning about an axle' (lit. 'runner'). See § 76 p. 198 ff.

We have an example of a suffix of this meaning occurring only in one group of languages in the Lith. *-ika-*, as *szėrika-s* 'feeder' *tupika-s* 'sheaf-binder', see § 87 p. 262.

Many *nomina agentis* in the Indo-Germanic languages arose

through the metaphorical use of *nomina actionis* for the doer of the action. Thus Skr. *dhāti-ṣ* m. 'shaker' (as f. 'a shaking', cp. Gr. *θῦσις* f. 'a raging, roaring'), Avest. *rāiti-ṣ* m. 'bestower' (as f. 'bestowal, alms', cp. Skr. *rātī-ṣ* f. 'alms, gift'), O.Ir. *tāid* m. O.C.Sl. *taŕi* m. 'thief' (orig. 'concealment, theft'), see § 99 f. p. 293 ff. Skr. *mān-tu-ṣ* 'counsellor' as well as 'counsel, advice', see § 108 p. 323 ff. Cp. § 157.

The *nomina agentis* may be used to denote an activity limited in point of time as well as one constantly repeated. It is especially in the former use that, like the participles, they have developed verbal constructions; for example those in *-ter-*, as Skr. *vāsūni dāta* 'bona dator' beside *vāsūnā dāta* 'bonorum dator' (cp. p. 378 f.), Lat. (rarely) *dator divitiās*, *jūsta orātor* beside *dator divitiarum*, *jūstorum orātor*, Gr. (Aesch. Prom. 612) *νῦνός βροτοῖς δοτῆρ' ὄρες Προμηθεΐα* 'thou seest Prometheus, the bestower of fire upon men'. If the connexion between the substantive and the verbal meaning is relaxed, the former may by degrees lose the character of a *nomen agentis* altogether; there then remains only the notion of a concrete thing or person. Thus **pə-ter-* at the time of the separation of the Indo-Germanic races had ceased to mean 'protector', which seems to have been its original signification, and meant simply 'father' (cp. § 146). **uksen-* (Skr. *ukṣān-* Mod.Cymr. *ych* Goth. *auhsa*) did not mean 'sower, begetter', but 'bull'. Gr. *τρυγών* 'turtle dove' orig. 'cooer' (*τρυζω* 'I coo'), Lat. *praetor* orig. 'qui praeit', O.H.G. *heri-zogo* 'duke' orig. 'leader of a host'.

§ 150. Nomina instrumenti.

-tro- -tlo-. Skr. *ari-tra-m* *ari-tra-s* O.H.G. *ruo-dar* Lith. *ir-kla-s* 'rowing implement, oar'. Skr. *kār-tra-m* 'magic charm'. Gr. *φέρε-τρον φέρ-τρον* Lat. *fer-culu-m* 'framework for carrying, litter, bier'. See § 62 p. 118 ff.

-ro- -lo-. Avest. *pata-ra-* 'wing', Gr. *πτερόν* 'feather, wing' (means of flying', √ *pet-* 'fly'). Lat. *scalp-ru-m* 'cutting instrument, knife', *caelu-m* 'chisel' for **caed-lo-m*, *prelu-m* 'press' for **prem-s-lo-m*. See § 74 p. 180 ff., § 76 p. 198 ff.

-*dhro-* -*dhlo-* in the European languages. Lat. *sū-bula in-sūbulu-m* Czech *šit-dlo* 'punch, awl' (Lat. *suere*). Gr. *κλήθη-θρο-ν* 'magic charm', *ἐπι-βάθρα* 'means of climbing, ladder'. Lat. *crī-bru-m*, *tere-bra*, *suscita-bulu-m*. Czech *běli-dlo* 'means of colouring white, white paint'. See § 77 p. 213 ff.

Gr. -*τηριο-* Lat. -*tōrio-* in neuter nouns. Gr. *θαλα-τήριο-ν* 'means of enchantment or delight' *κρη-τήριο-ν* 'means or ground of decision' *καλλεν-τήριο-ν* 'means of adornment, ornament' *κυσ-τήριο-ν* 'branding iron' *σημαν-τήριο-ν* 'seal, stamp', Lat. *liqua-tōriu-m* 'filtering vessel, strainer' *scalp-tōriu-m* 'instrument for scratching' *circum-cīdōriu-m* 'lancet'. See § 63 p. 128 f.

Lith. -*tuva-*: *kosz-tuva-s* 'strainer, sieve', *min-tuvaī* 'tool for tearing flax' and other examples see § 61 p. 117.

Nomina agentis (§ 149) are often used to denote an instrument, this being regarded as if it were a living performer of the action: cp. Mod.H.G. *träger* used both for the person who carries and for the means of carrying (beams and the like), *feld-messer* 'surveyor's instrument' and *gas-messer* 'gasometer' [Eng. *shutter*, *fender* etc.] and the like. Thus Skr. *sē-tār-* 'fetter, bonds' (*si-* 'enchain, bind'), Gr. *ῥαιστήρ* 'hammer' (*ῥαίω* 'I shatter, crush') *ζευκ-τήρ* 'yoke-strap' (*ζεύγνυμι* 'I yoke') *ἀρν-ρηρ* 'ladle, spoon, scoop' (*ἀρνύω* 'I draw water, ladle') just like *δο-τήρ* 'giver'; Lat. *runcō*, -*ōn-is* 'hoe' like *edō* -*ōn-is*; O.H.G. *meizil* 'chisel' (Goth. *māita* 'I hew') *sluzzil* 'key' (lit. 'he who closes') *slegil* 'mallet' ('beater') just like *putil* 'beadle'.

We find also *nomina actionis* becoming names of instruments, see § 155.

§ 151. *Nomina loci*. The suffixes chiefly used to form names of places were those which also formed *nomina instrumenti* (§ 150). A locality may often be regarded as the means for the performance of an action, e. g. a hiding-place is a means of concealment. When a suffix has so acquired this function in a few words, it may then be used directly in other words as a suffix denoting locality.

-*tro-* -*tlo-*. Skr. *kṣē-tra-m* 'place of settlement, field' Avest. *sōi-pre-m* 'place of settlement, dwelling-place'. Skr. *sthā-trá-m*

'standing-place, position', *jant-tra-m* 'birthplace, home'. Gr. *λίετρον* 'lying-place, bed', *θέατρον* 'place of exhibition, theatre'. Lat. *cubi-culu-m*, *spectā-culu-m*, *hospitā-culu-m*, *ambula-cru-m*. Lith. *bū-klā* 'home', *bu-klā-s* (u?) 'lair of an animal'. See § 62 p. 118 ff.

-ro- -lo-. Skr. *mand-irā-m* housing, chamber, house, Gr. *μάνδρα* 'fold, pen, stall'. Skr. *aj-irā-m* 'arena, courtyard'. Gr. *ἔδρα* O.Icel. *set-r* n. 'seat'. Gr.Lac. *ἔλλα* for **ἔδ-λα* Lat. *sella* for **sed-la* Goth. *sit-l-s* 'seat', O.C.Sl. *selo* 'fundus, habitaculum' Upper Sorb. *sy-dlo* 'dwelling-place'. Here no doubt should be classed Idg. **ag-ro-s* 'common, meadow, field' (Skr. *áj-ra-s*, Gr. *ἀγρός* Lat. *ag-er* Goth. *ak-r-s*) as denoting 'a place for driving cattle', √ *ag-* 'agere', cp. Skr. *ajirá-m*; the word acquired the meaning 'arable land' only when pasturing gave way to tillage, and the greater part of the land was cultivated by the plough. See § 74 p. 180 ff., § 76 p. 198.

-dhro- -dhlo-. Gr. *ἀλνδρή-θρα*, 'wallowing-place', *γενέ-θλη* 'birthplace' *ἔδε-θλο-ν* 'seat, site'. Lat. *volūta-bru-m* 'wallowing-place for swine', *sta-bulu-m*, *nata-bulu-m*, *concilia-bulu-m*, *lati-bulu-m*, *late-bra*. Czech *by-dlo* 'dwelling'. See § 77 p. 213 ff.

Gr. -*τηριο*- Lat. -*tōriu*-. Gr. *ἀγωνιστήριο-ν* 'place of battle', *ἀκροᾶτήριο-ν* 'hall of audience', *ἐργαστήριο-ν* 'place of work', *βουλευτήριο-ν* 'council hall'. Lat. *audi-tōriu-m* *dēversōriu-m* *condi-tōriu-m*.

Other suffixes came in other ways to denote locality. Thus -*μεν*- in Greek, as *οἰνεών οἰνών* 'wine-bin', *παρθενείων παρθενών* 'maidens' apartment', *ἱππών* 'stable', *λασιών* 'place thick with bushes', see § 116 p. 364. -*to*- in Lat., as *arbus-tu-m* 'plantation' (something provided with trees), *flic-tu-m* 'place full of ferns', *cārec-tu-m* 'place full of reeds', see § 79 p. 231 f. and cp. § 152. Cp. further the *nomina actionis* which have become names of place, § 155.

§ 152. Collective Nouns. Under this head there is little to notice. The chief means which the Indo-Germanic languages possess of denoting groups of things collectively in the singular

is the use of the neuter (e. g. Gr. *ὑπὸχρεοσύνη* 'dependencies' compared with *ὑπὸχρεοῦς* 'subject, dependent') which cannot be properly considered in this section, although indeed the view of the distinctively neuter case-suffixes as having been originally used to form the stem of the noun to which they were added is one which has nothing against it and a good deal in its favour. Nor are we here concerned with the collective use of the singular in names of peoples and the like (e. g. Gr. *οἱ Πέρσες* = 'the Persians' O.Pers. *māda* = 'the Medes collectively, Media'), or with the later use of compounds in which the final member had become a kind of suffix, (e. g. O.H.G. *liut-scaf* 'natio' Mid.H.G. *heiden-schaft* 'heathendom, the Saracens and their country').

Notice first that denominative adjectives, denoting connexion with the word from which they are derived, are a very common means of representing the collective idea. It will be found, I believe, that the neuter is regular in all the cases which occur frequently, and this was a factor of importance in expressing the collective meaning. E. g. Gr. *-ιχό-ν*: *ἱππικό-ν* 'body of horsemen', *ὀπλιτικό-ν* 'body of heavyarmed troops', *συνμαχικό-ν* 'alliance, host of allies', see § 87 p. 260. The Lithuanian collectives in *-ýna-s* also, such as *aužl-ýna-s* 'a number of oaks standing together, grove of oaks', *krām-ýna-s* 'thick underwood', *akmen-ýna-s* 'heap of stones', appear to have been originally neuter, see § 68 p. 159.

We must further observe that sometimes suffixes used in substantives denoting a quality are also used collectively; e. g. Skr. *janá-tā* 'company of people, community', Little-Russ. *bidota* 'proletariate' *temnota* 'ignorant people' (§ 80 p. 238 ff.), Gr. *φρατρία* O.C.Sl. *bratřija* 'brotherhood' (§ 63 p. 125 ff.).

The collective nouns cannot always be clearly distinguished from the *nomina loci* (§ 151). A few of the group of Latin neuters in *-tu-m* mentioned in the previous section may be repeated here; e. g. *arbus-tu-m* 'plantation', *virgul-tu-m* 'bushes', *salic-tu-m* 'willow plantation, undergrowth of willows'.

§ 153. Diminutives and Pet Names. The sense of diminution (depreciation, detraction, endearment and so forth)

often disappeared, partly even in prehistoric periods. Compare the diminutive adjectives in § 142.

-lo-. Skr. *ṛṣā-lā-s* 'mannikin, small man', *śalākā-lā* 'little shaving'. Gr. ἀρκτιλός 'young bear'. Lat. *porc-ulu-s* *porcil-ia* O.H.G. *farhel-i* Lith. *parszē-l-i-s* 'little pig, sucking pig'. Lat. *rot-ula* Lith. *ratē-l-i-s* 'small wheel'. O.H.G. *bendil* 'little band'. See § 76 p. 198 ff.

-go-. Skr. *marya-kā-s* 'mannikin', Gr. μεῖραξ 'girl' *μεῖράκ-ω-ν* 'boy'. Skr. *aśva-kā-s* 'small horse'. Gr. βῶμαξ 'small altar'. Lat. *homun-c-iō* 'mannikin' (in the sense of a weak creature), *ovi-c-ula* 'little sheep'. Lith. *parszūka-s* 'little sucking pig', *tėvūka-s* 'little father', O.C.Sl. *synū-kū* 'little son'. See § 84 p. 252 f., § 88 p. 262 ff.

Usages confined to single groups of languages: Gr. neuters in -io-ν: ὀρνίθ-ιο-ν 'small bird', ἑταίριδ-ιο-ν 'little mistress', ἀσπίδ-ιο-ν 'small shield', ἀδελφ-ίδιο-ν 'little brother', see § 63 p. 128. Germanic neuters with -īna-: Goth. *gait-ein* O.H.G. *geiz-īn* 'little goat', Goth. *gum-ein* 'little man', see § 68 p. 158. In both these instances the intermediate stage was the idea of belonging to a species, which suggested that of incompleteness and inferiority. The developement was perhaps the same in the case of the suffix -ien- in Avest. *kain-in-* f. 'girl', Lat. *pūs-iō* 'little boy' *pūmil-iō* 'dwarf' *senec-iō* 'little old man' *homunc-iō* and others of the same sort, see § 115 p. 358. 359. Mention should also be made of the Germanic diminutives with Idg. -go-, such as O.H.G. *armihha* 'paupercula' *snurihha* 'little daughter-in-law', see § 91 p. 277.

Diminutive suffixes were often combined, as Gr. -x-io-, Lat. -c-ulo- -l-ulo-, Germ. -l-ina-, Lith. -lē-la- (nom. -lē-l-i-s). This was done partly to give a fuller and more emphatic expression to the idea of diminution, e. g. Lat. *agellulu-s* beside *agellu-s*, from *ager* 'field', Lith. *mergelė* beside *mergėlė*, from *mergà* 'girl', partly in consequence of a complete loss of the diminutival sense in the first suffix, e. g. Lat. *mus-c-ulu-s*, Mod.H.G. *ferk-el-chen*.

-*lo-* and -*go-* were frequently employed in the proethnic and later periods in names of persons, especially to form 'pet names'. How far indeed the suffix retained its proper sense, is often hard to determine in any particular instance. Skr. *bhānu-la-s*, Gr. *Θρασύ-λο-ς*, O.Ir. *Tuathal*, Goth. *Vulfi-la*, Pruss. *Butil*. Skr. *dēva-ka-s* *dēvika-s* Gall. *Divico* *Divic-ia*, Skr. *śuna-ka-s* Gr. *Κύναις*, Skr. *sana-ka-s* Gall. *Senicco* *Seneca* O.H.G. *Sinigu-s* (the termination is Latin), O.H.G. *Berhtung* *Berhting*, Pruss. *Tewiko* *Banduke*.

Relation of Adjectives to Concrete Substantives.

§ 154. No distinction in form has ever been made in the Indo-Germanic languages between the adjective or participle on the one hand and the concrete substantive on the other.

Adjectives were used without change as substantives, just as substantives were often used without change as adjectives. Thanks to this usage the original adjectival or substantival character was often completely lost; thus Idg. **dont-* 'tooth' (Skr. *dānt-* etc.), originally a verbal adjective meaning 'eating', became a simple substantive, perhaps even in the proethnic period (§ 126 p. 394. 398). The original character of a particular word however often appears side by side with the new sense, e. g. Lat. *nātus* 'born' and 'son', *uber* 'udder, exuberant fulness, abundance' and 'fertile, rich'.

The process of the change from adjective to substantive was frequently that the meaning of the adjective came to include the idea of some substantive to which the adjective was especially often applied. Thus *ναῦς* 'ship' was often left unexpressed Greek, as in the phrases *ἡ τριήρης*, *ἡ πρύμνη*. In many instances the different languages show a remarkable agreement, and there the usages in question may date from the Indo-Germanic period. Thus we have fem. Gr. *δεξιὰ* (sc. *χείρ*) Lat. *dextra* (sc. *manus*) 'the right hand', O.Ir. *for deis* (sc. *laim*) 'on the right', Goth. *taihwa* (sc. *handu-s*), Lith. *deszinė* (sc. *rankà*) 'the right hand', but on the contrary masc. Skr. *dākṣiṇa-s* (sc. *hāsta-s*) 'right hand'. Lat. *capr-ina*

'goat's flesh' Lith. *ož-ėnà* 'flesh of a he-goat' O.C.Sl. *bǫbroc-ina* 'beaver's flesh'; Lat. *rāp-ina* 'turnip-field' Lith. *aviž-ėnà* 'oat-field' O.C.Sl. *nov-ina* 'newly ploughed land, fallow land', see § 68 p. 156 ff.

But some formative suffixes acquired the special function of converting adjectives into substantives, being used as denominative suffixes to form names of persons or things possessing the attribute or quality which was expressed by the original word. *-en-* is very commonly so used, especially in Germanic; e. g. Avest. *mar't-an-* 'a mortal' beside *mar'ta-* 'mortal', Gr. *στραβ-ων* 'squinter' beside *στραβό-ς* 'spinting', Lat. *Rūf-ō* beside *rūfu-s* Goth. *rāud-a* 'red one' beside *rāup-s* 'red', Lith. *rud-ũ* 'autumn' beside *rūda-s* 'reddish-brown'. See § 114 p. 344 ff. Other suffixes of this kind are found only in single groups of languages, as *-ago-* in Balt.-Slav., e. g. Lith. *naujōka-s* O.C.Sl. *novakŭ* 'novice' beside *naŭje-s novŭ* 'new' (§ 89 p. 274), and Germ. *-inga-*, e. g. O.H.G. *arming* 'poor man, poor fellow' beside *arm* 'poor' (§ 88 p. 267).

Substantives denoting an activity or state (*nomina actionis*, verbal abstract nouns).

§ 155. To denote an activity or a state is in general the function of the verb. Substantives which express an action or a state owe their existence to a metaphor, as do those which denote a quality (§ 157), — action and state being regarded as belonging to the category of material objects.

It often happens that the *nomen actionis* does not express its own idea simply, but represents also, by a confusion, the notion of a person or thing that is in some way connected with the action; thus such substantives come to denote material objects. The designation of the action may be applied to its (grammatical) subject: e. g. Mod.H.Germ. *rat* (properly 'advice') = 'adviser, counsellor', *strom strömung* (properly 'a streaming') = 'streaming water', *verzierung* (properly 'an adorning') = 'something which adorns'. [Cp. Eng. *counsel* (in e. g. *Queen's Counsel*), *a grief* = 'something which grieves', *a hindrance* = 'something

which hinders']. Or it may be further extended to denote the external (direct) object of the action, that which is in any way affected by the action, e. g. Mod.H.Germ. *saat* (properly 'a sowing') = 'what is sown', *wohnung* (properly 'the act of inhabiting') = 'the house a man inhabits' [cp. Eng. *contrivance* = 'what is contrived', *belief* = 'what is believed']. Or to the internal (cognate) object, thus giving rise to a term for the result of the action, e. g. Mod.H.Germ. *riss* (properly 'a rending') = 'a rent', *wuchs* (properly 'a growing') = 'the result of growing, growth, figure', *vereinigung* (properly 'a uniting') = 'the result of uniting, a united body' [cp. Eng. *growth*, *union*, *a spelling* = 'the method or result of spelling a word']. In the same way we have such words used as *nomina instrumenti*, e. g. Mod.H.Germ. *verzierung* = 'means of adornment', *lösung* (properly 'a setting free') = 'means of setting free, redemption-money' [cp. Eng. *distinction* = 'means of distinguishing', *influence* ('he will use his influence for me') = 'means of influencing', *relief* = 'means of relieving']; or as *nomina loci* e. g. Mod.H.Germ. *wohnung* = 'a dwelling-place', *trift* (properly 'a driving') = 'pasture-land' [cp. Eng. *dwelling*, *pasture*] etc. Cp. Paul Princ.² p. 81 f.

These various developements are generally difficult to separate clearly, and hence in what follows we shall not confine our attention to the *nomina actionis* in the strict sense but consider along with them those which show the secondary variations of meaning that have just been enumerated.

We will begin with the suffix which seems to retain the simple meaning of an action or state most regularly.

-ti-: **sru-ti-s* 'a flowing, stream': Skr. *sru-ti-ṣ* Gr. *ῥίσις*.
 **qi-ti-s*: Skr. *ápa-citi-ṣ* 'requital, punishment' Gr. *τίσις* 'valuation, fine, punishment'. Skr. *ma-ti-ṣ* 'thought, mind', Gr. *μάρτις* (m.) 'one inspired, seer', Lat. *mēns* 'mind', Goth. *ga-mund-s* 'remembrance' *ana-mind-s* 'conjecture', Lith. *at-mintì-s* 'memory', O.C.Sl. *pa-metì* 'remembrance'. Skr. *śru-ti-ṣ* 'hearing, sound, news, tale', *syū-ti-ṣ* 'sewing, sack', *prá-jñati-ṣ* 'perception' *jñā-ti-ṣ* m. 'relative', Gr. *χύσις* 'outpouring, gush, libation', *ῥήσις* 'speaking, word'.

ὄψις 'sight, countenance', μάχην-τις (m.) 'seizer, robber'. Lat. *mors*, *tussi-s*, *ves-ti-s*, *cōs*, *hos-ti-s*. O.Ir. *buith* 'existence', *bli-th* 'painting'. Goth. *us-tauht-s* 'perfection, completion', *fra-lust-s* 'loss, destruction', *sauht-t-s* 'sickness, illness', *ga-skaft-s* 'creation, created thing', O.H.G. *sih-t* 'sight, power of sight', Mid.H.G. *trift* 'driving, common (cattle-drive), meadow'. Lith. *dū-ti-s* O.C.Sl. *du-ti* 'gift'. Lith. *gir-ti-s* 'feast', *skl̃sti-s* 'cleft in the hoof of cattle', *pir-ti-s* 'bath-room', *pri-eit̃-s* 'suburb'. O.C.Sl. *po-znatī* 'cognitio', *vr̃istī* 'state, condition, position', *sč-tī* 'string'. See § 100 p. 294 ff.

-*ni-*. Skr. *lū-ni-ṣ* 'a tearing loose, severance', Goth. *lū-n-s* 'means of deliverance, ransom money'. Skr. *gīr-ṇi-ṣ* 'a swallowing', *jūr-ṇi-ṣ* 'heat'. O.Ir. *tain* 'a driving forth, booty', *buain* 'harvesting, harvest'. Goth. *ana-busn-s* 'bidding, injunction, order', *gu-rēhn-s* 'intention, plan', *siun-s* 'a seeing, power of sight, countenance, appearance'. Lith. *bar-ni-s* 'quarrel' O.C.Sl. *bra-nī* 'battle'. Lith. *žinksni-s* 'step'. O.C.Sl. *stīg-nī* 'way, road'. See § 95 p. 285 ff.

-*tu-*. Skr. *gún-tu-ṣ* 'course, way', Lat. *ad-ventu-s*. Avest. *vi-datu-ṣ* 'decomposition of the body, dissolution, death'. Gr. *κτιστέ-ς* 'a founding', *ἀκοντιστέ-ς* 'javelin-throwing, fight with javelins'. Lat. *ad-itu-s*, *or-tu-s*, *gemi-tu-s*. O.Ir. *mess* 'deciding, sentence'. Goth. *kus-tu-s* 'trial, proof', *vahs-tu-s* 'growth'. Lith. *lytū-s* *lētū-s* 'rain'. See § 108 p. 323 ff.

-*mo-* -*mā-*. **dhū-mo-s* 'ebullition': Gr. *θῦμός-ς* 'ebullition of temper, passion, courage', Skr. *dhāmā-s* Lat. *fūmu-s* Lith. *dūmai* O.C.Sl. *dymū* 'smoke'. Skr. *sār-ma-s* 'a flowing', Gr. *ὄρμη* 'impulse'. Skr. *bhā-ma-s* 'light, brightness'. Gr. *πταρμός-ς* 'sneezing', *ἰγμός-ς* 'shrieking', *ἀγραγμός-ς* 'plundering, booty', *δαυμός-ς* 'partition, division', *τίμη* 'estimation, honour', *γνώμη* 'intention, opinion'. Lat. *ani-mu-s* *ani-ma*, *fā-ma*. Goth. *dō-m-s* O.H.G. *tuo-m* 'sentence, judgment, position, worth', O.H.G. *strō-m* 'stream'. Lith. *lūksma-s* 'bending', *rēksma-s* 'roar', *sūkama-s* 'a turning', *sākyma-s* 'a saying'. O.C.Sl. *u-mū* 'mind, understanding'. See § 72, 3 p. 170 ff.

-*men-*. Skr. *dhā-man-* 'statute, operation, seat, dwelling-

place'. Avest. *dāman-* 'creation, created thing', Gr. ἀνά-θημα 'a setting up, that which is set up, votive offering' θέ-μα 'a storing up, deposit'. Skr. *dā-man-* 'a giving', Gr. δό-μα 'gift'. Gr. ῥεῦ-μα ῥύ-μα O.Ir. *sruaim* 'a streaming, stream'. Skr. *bhār-man-* 'support, fostering care', Gr. φέ-μα 'fruit of the womb', O.C.Sl. *brě-mę* 'burden'. Skr. *hāvī-man-* 'a summoning', έ-man- 'a going', *dhār-man-* 'prop, support'. Gr. ῥ-μα 'a throwing', νό-η-μα thought', ὁρά-μα 'sight', ζεύγ-μα 'bond, bridge of boats'. Lat. *nā-men, lū-men, agmen, certā-men*. O.Ir. *cēm* 'a stepping, step', *bēm* 'a striking, stroke', *gairm* 'call, cry'. Goth. *hliu-ma* 'hearing', *skei-ma* 'a light' O.H.G. *scī-mo* 'brightness, gleam'. Lith. *rė-mũ* 'heart-burn', *aug-mũ* 'excrescence'. See § 117 p. 365 ff.

-o-, -a-. Skr. *jān-a-m* 'birth, origin', Gr. γόν-ος 'birth, offspring'. Gr. χροῦ-ος 'noise, murmur, neighing', O.C.Sl. *grom-ũ* 'thunder'. Skr. *ghōṣ-a-s* 'sound, din' Avest. *gaos-a-* m. 'ear'. Gr. ὀλκ-ός 'dragging, that which drags', τόμ-ος 'cut, slice'. Goth. *ga-fāh-s* 'capture', *dragk* 'drink'. Lith. *ũš- Valka-s* 'outside covering, bed-covering' O.C.Sl. *oblakũ* 'cloud'. Gr. ῥο-ή 'flood', Lith. *srav-à* 'flowing, bleeding'. Gr. φυγ-ή Lat. *fug-a* 'flight'. Skr. *bhid-ā* 'split, division'. Goth. *gib-a* 'gift'. See § 60 p. 109 ff.

-es- -os- -s-. Skr. *dāśas* 'glorious deed', Gr. δῆ-ρα 'counsels, wiles'. Skr. *āpas āpas* 'work, religious performance', Lat. *opus*. Gr. ῥίγος Lat. *frīgus* 'cold'. Skr. *dōhas* 'milking', *nāmas* 'obeisance, reverence', Avest. *tacō* 'course'. Gr. ῥδος 'pleasure', αἰδος 'brand', δέος 'fear'. Goth. *hatis* 'hate', *agis* 'fear'. Gr. αἰδώς 'shame, modesty'. Lat. *tepor, amor*. See § 131 ff. p. 411 ff.

-ien- -tjen- in some European languages. Lat. *cap-iō, religiō*, Goth. *ga-runjō* 'overflow', *sakjō* 'strife'. Lat. *ra-tiō*, Goth. *ra-þjō* 'ratio'. Lat. *men-tiō*, O.Ir. *er-mitiu* 'honor'. See § 100 p. 294 ff., § 112 p. 341 f., § 115 p. 357 ff.

Other suffixes used in the formation of *nomina actionis* will be discussed in §§ 156 and 158.

When the *nomina actionis* had come to denote material objects, they were liable a still further extension of meaning, namely to be used as adjectives (cp. § 154). Here perhaps should

be classed e. g. Skr. *pā-ti-ṣ* 'stinking' and *tapya-ti-ṣ* 'hot, glowing', originally 'stench' and 'heat, glow'.

Relation of the *nomina actionis* to the Infinitive (Supine)¹⁾.

§ 156. Since the *nomina actionis* denote not merely a continuous activity but also one which may be defined in point of time, they sometimes come to be used in verbal constructions. Here, as in the case of the adjective (§ 144), the connexion with the verb may include the power of governing a case, and of distinguishing differences of time, different kinds of action (such as momentary, continuous, inceptive) and Voice (*diathesis, genus verbi*).

This kind of assimilation to the character and construction of the verb appears e. g. in Gr. τὴν τοῦ θεοῦ δόσιν ὑμῶν (Plat.) 'the gift of God to you', περὶ δὲ σφίσι καταδουλώσεως (Thuc.) = περὶ δὲ τοῦ ἑαυτοῖς καταδουλιωθῆναι (τοὺς Ἕλληνας), Lat. *reditus Rōmam*. But a still more complete identification is seen in what are called infinitives (and supines), which are crystallised cases (generally acc., dat., loc.) of *nomina actionis*. An infinitive may be said to be completely formed when the noun is no longer regarded as a case-form belonging to its own system, and its construction no longer follows the analogy of its original use as a noun; this is true, for example, of Gr. δόμεναι δοῦναι Lat. *dare*, at the earliest period of which we have record. Before, however, such forms were completely isolated from the nominal system,

1) E. Wilhelm, De infinitivi linguarum Sanscr. Bactr. Pers. Graec. Osc. Umbr. Lat. Got. forma et usu, 1873. J. Jolly, Geschichte des Infinitivs im Indogermanischen, 1873. A. Ludwig, Der Infinitiv im Veda, 1871. M. Müller, Grammatical forms in Sanskrit corresponding to the so-called Infinitives in Greek and Latin, Essays IV 420 ff. H. Brunnhofer, Über Dialectspuren im vedischen Gebrauche der Infinitivformen, Kuhn's Ztschr. XXV 329 ff. Chr. Bartholomae, Die Infinitivbildung im Dialect der Gāthā's, ibid. XXVIII 17 ff. L. Meyer, Der Infinitiv der homer. Sprache, Gött. 1856. E. Windisch, Zum ir. Infinitiv, Bezzenberger's Beitr. II 72 ff. A. Denecke, Der Gebrauch des Infinitivs bei den ahd. Übersetzern des 8. u. 9. Jahrh., Leipz. 1880. W. Müller, Über den letto-slavischen Infinitiv, Kuhn-Schleicher's Beitr. VIII 186 ff.

they passed through a number of intermediate stages, and hence it is often hard to say whether any particular form should be called an infinitive in the strict sense of the word¹⁾. The infinitives that least deserve the name are the Irish, because the *nomina actionis* used in Irish where other languages use the infinitive retained the construction of nouns, e. g. *ar-dot-chuibdig fri sechem na m-bria-thar sin* 'pledge thyself to obey these words' (literally 'to the obeying of these words'). In this latter respect (the power of governing an acc.) even the language of the Veda shews a further degree of developement; e. g. we find not only *ándhasah pítáyē* 'for the drinking of the soma-juice', but also *ándhāsi pítáyē*; the same double construction is found in the Avesta (cp. Bartholomae, Kuhn's Ztschr. XXVIII 12 f.). The infinitive reached its most characteristic developement in Greek and Latin, the only languages in which we find a special expression for differences of voice.

The following formative suffixes are distributed amongst the infinitival forms (we may omit the Keltic infinitives). *-tu-* in Ar., Lat., Balt.-Slav., see § 108 p. 323 ff. *-ti-* in Ar., Balt.-Slav., see § 99 f. p. 293. *-men-* in Ar., Gr., see § 117 p. 365 ff. *-gen-* in Ar., Gr., see § 116 p. 362 ff. *-es-* in Ar., Lat., see § 131 f. p. 411 ff. In single groups of languages: *-i-* in Ar., see § 93 p. 279 f.; *-lo-* in Armen., see § 76 p. 202; *-o-* in Umbr.-Samn., see § 60 p. 114; *-ono-* in Germ., see § 67 p. 153. 154.

As the participle might again become a simple noun (§ 144), so also could the infinitive. In this case, however, the process was more difficult because it was not inflected. The approximation to the noun was easiest where there was least necessity for expressing its relations by means of inflexion, that is, in its use as subject or object; e. g. Gr. πάντεςσιν ἐπὶ ξυροῦ ἵσταται ἀκμῆς ἢ μύλα λυγροῦς ὄλεθρος Ἀχαιοῖς ἢ ἐβίωvαι (Hom. K. 173), περιψω ἀλαλεῖν (Id. T. 30), Lat. habēre eripitur, habuisse nun-

1) Hence e. g. the objection urged by Brunnhofer against Ludwig and Wilhelm, that they had adduced as infinitives Vedic forms which were nothing but *nomina actionis* (Kuhn's Ztschr. XXV 330).

quam (Sen.), *hic verēri* (= *verēcundiam*) *perdidit* (Plaut.). This led on to such constructions as Gr. τὸ λέγειν, Lat. *tuom amāre* (Plaut.), *nostrum istud vivere triste* (Pers.), *nīl praeter plōdre* (Hor.), *quid hūius vivere est?* (Sen.)¹) and so forth. See Paul Princ.² 311 f.

Substantives denoting a quality (Abstract Substantives in the strict sense).

§ 157. Substantives which denote a quality, owe their existence to a metaphor just as do the *nomina actionis*: an attribute or natural quality was regarded as belonging to the class of material objects.

Substantives denoting a quality often come to designate the person to whom the quality belongs, e.g. Mod.H.G. *Jugend* = 'youthful persons, young folk (collectively)' or 'a single youthful person', [Eng. *youth*]. But it is difficult to maintain any sharp distinction between the separate uses, and therefore the words which show this secondary developement of meaning will be treated along with the rest. It is important also to recognise the fact that no hard and fast line can be drawn between this class of nouns and the *nomina actionis* with their secondary shades of meaning. It is natural enough that the two divisions should often overlap.

The suffixes that most frequently appear in these abstract nouns are the following.

-*tā*-. Avest. *cista*- 'wisdom'. Gr. *πινυτή* 'prudence, understanding'. Lith. *geltà* 'yellowness'. Lat. *juventa* Goth. *junda* 'youth'. Skr. *pūrṇatā*- O.H.G. *fullida* O.C.Sl. *plūnota* 'fulness'. Skr. *ghōratā*- 'awfulness' Goth. *gaurīpa* 'trouble'. Skr. *dīrghatā*- O.C.Sl. *dlūgota* 'length'. In Greek and Slavonic are found concrete nouns like ἀγρότης 'countrymen' *junota* 'youth'. See § 79 p. 220 ff., § 80 p. 238 ff.

-*tati*- -*tāt*- and -*tūti*- -*tūt*-. Skr. *sarvātāti*-§ *sarvātāt*- 'completeness' Avest. *haurvatāt*- 'safety' Gr. *ὁλότης* 'totality, entirety'. Gr. *νεότης* 'youth', Lat. *novitas* 'novelty, strangeness'.

1) Cp. Wölfflin, Der substantivierte Infinitiv [im Latein], Archiv für lat. Lexikogr. III 70 ff.

Lat. *juventās* and *juventūs*. O.Ir. *oentu* 'unitas'. Goth. *gamáin-dūþ-s* 'communitas'. See § 102 p. 308 ff.

-*nā*-. Avest. *per^{nā}*- Goth. *fullō* 'fulness'. Skr. *jaraṇḍ* 'decrepitude, age'. See § 65 ff. p. 138 ff.

-*īo*- -*īā*-. Skr. *pālitya-m* 'greyness', *śrāiṣṭhya-m* 'excellence'. O.H.G. *gi-fuori* 'fitness, usefulness'. Lith. *ilgi-s* 'length', O.C.Sl. *ostrije* 'sharpness'. Gr. ἀγνηροίη 'manliness', ἀναρχία 'anarchy'. Lat. *audacia* 'boldness', *modestia* 'moderation', *sapientia* 'wisdom'. See § 63 p. 122 ff.

-*tyo*- -*tyā*-. Skr. *dēvatvā-m* 'divinity', *śucitvā-m* 'purity', *sātmavā-m* 'inspiration, possession by a deity'. Goth. *þivado* 'servitude', *fiþaþva* 'enmity'. O.C.Sl. *zělstvo* 'violence'. See § 61 p. 116 f.

-*ti*-. **penqti-s* 'fivefold character, pentad, the number five': Skr. *pañcīti*- O.Icel. *fimt* O.C.Sl. *peti*. Skr. *yuvati*-š 'maiden' (orig. 'youth' (abstr.)) O.H.G. *jugund* 'youth'. O.C.Sl. *dlūgostī* 'length', *qzostī* 'narrowness'. See § 99 p. 293, § 101 p. 306 ff.

-*es*- -*os*-. **reges*- 'gloom, darkness': Skr. *rājas* (Armen. *erek*) Gr. ἔρεβος Goth. *riqis*. Skr. *māhas*- 'greatness, size', *yāśas*- 'glory', Gr. εὖρος 'breadth', μήκος 'length', βέθυνος 'depth', μέγεθος 'size, greatness'. Lat. *Venus* 'charm of love', *languor* 'weariness', *lēvor* 'smoothness', *dulcor* 'sweetness'. See § 131 ff. p. 411 ff.

In single groups of languages: e. g. Lat. -*tūdin*-, *fortitūdō* 'fearlessness', *lassitūdō* 'weariness' (cp. § 128 p. 409), Lith. -*ybė*-, *auksztībė* 'height, highness', O.C.Sl. -*ba*-, *zūloba* 'wickedness' (§ 78 p. 217 f.).

The Relation of Adjectives to Abstract Substantives (*nomina actionis* and substantives denoting a quality) formed with the same suffixes.

§ 158. In conclusion we have to discuss another question which bears upon the origin of the substantives denoting an action or a quality and the general relation between adjectives and substantives in Indo-Germanic.

Many nouns formed with *o*-suffixes act both as adjectives and as abstract substantives; as a rule it happens that the

feminine or neuter form, more rarely that the masculine form is the one which is used substantivally. If the adjective is a *nomen agentis*, we have a corresponding *nomen actionis*, e. g. Skr. *srutá-s* 'flowing': *srutá-m* n. 'a flowing, flood'. Or if it predicates an attribute, then the corresponding substantive denotes the attribute, e. g. Lith. *gelta-s* 'yellow': *geltù* f. 'yellowness'.

The following are examples.

-to- -tā-.

Feminine. Avest. *cistā-* 'wisdom': Skr. *cittā-* partic., in the neut. 'observation, thought, intent, spirit'. Gr. *πινυτή* 'intelligence, wisdom': *πινυτός* 'intelligent'; *γενετή* 'birth, origin': Lat. *genitu-s*; *βροντή* 'thunder'. Lat. *offensa* 'a striking against, offence': *offensu-s*; *repulsa* 'rejection': *repulsu-s*; *impēnsa* 'expenditure': *impēnsu-s*; *multa* 'punishment': *mulsu-s* instead of **mol(c)tu-s* (the isolation of the substantive from the participle preserved it from the analogical change which affected the latter), Skr. *mṛṣṭā-* 'grasped, touched'. O.Ir. *ed-part ed-bart* 'oblatio': *do-breth* Mid.Ir. 'datum est', (Skr. *bhṛtā-s* Gr. *φειρός*); *loth* 'filth': compare this and the Lat. *lutu-m lutu-s* 'mud' with Lat. *-lūtu-s* (*ab-lūtu-s* etc.) 'besprinkled, soiled'. Goth. *skanda* O.H.G. *scanta* 'disgrace': O.H.G. *scant* 'shamed'; O.H.G. *forahta* 'fear': Goth. *faurht-s* 'fearful'; A.S. *gud* 'battle': Skr. *hatā-* 'smitten'. Lith. *geltā-* 'yellowness': *gelta-s* 'yellow'; *banktos* pl. 'boisterousness, storm': *bankta-s* 'boisterous'. O.C.Sl. *vrīsta* 'condition, state, position, stage': Skr. *vyttā-* 'versus'. The secondary Idg. suffix -tā- in Lat. *juventa* Skr. *pūrṇatā* etc. should be added here, see p. 238 ff.

Neuter. Skr. *mṛtā-m* 'death' O.H.G. *mord* 'murder': Skr. *mṛtā-s* 'dead'. Skr. *matā-m* 'meaning, opinion, intent' Lat. *com-mentu-m* 'idea, invention, design' O.Ir. *der-met* 'forgetfulness': Skr. *matā-* 'thought, intended'. Idg. **kley-to-m* 'faculty of hearing' Avest. *sraote-m* Goth. *hlinþ*: Skr. *śrutā-s* 'heard'. Skr. *srutā-m* 'flowing, flood, stream': *srutā-s* 'flowing'; *stutā-m* 'laudation, praise': *stutā-s* 'praised, lauded'; *mānita-m* 'a doing of honour': *mānita-s* 'to whom honour is done, honoured'; Avest.

fra-āte-m 'help, success': *fra-āta-* 'helped, made'. O.H.G. *ferid* 'navigium'. O.C.Sl. *pato* 'fetter': partic. *peŭ*. Here we must also class Idg. *-mę-to-*, as in Skr. *śrōmata-m* 'a listening to' O.H.G. *hlumunt* 'repute, character', Lat. *cōgnōmentu-m*, see p. 249.

Masculine. Skr. *ghā-ta-s* 'blow, slaying'. Avest. *stutō* 'laudation, prayer', cp. Skr. n. *stutā-m*. Gr. *κον-ογρό-ς* 'raising of the dust, cloud of dust': *νέ-ογρο-ς* 'newly arisen' Lat. *ortu-s*; *ἔμετο-ς* 'vomiting': *ἐμερό-ς* Skr. *vamita-s* 'vomited'; *σπαρό-ς* 'encamped host': Skr. *stṛtā-s* Gr. *σπαρό-ς* 'outspread, outstretched'; *οἴο-ς* 'fate': Skr. *ēta-s* 'hasting' Lat. *-itu-s*; *φόρο-ς* 'burden': *φερό-ς* 'bearable' Skr. *bhṛtā-s* 'borne'; *θάνατο-ς* 'death': *θνήρο-ς* 'mortal'; *κακῦρό-ς* 'wailing', *κοῖτο-ς* 'couch' (with *κοίτη*) and other *exx.* Lat. *lectu-s* (and *lectu-m*) 'couch', *lutu-s* (and *lutu-m* 'mud', cp. O.Ir. *loth* f. above. A.S. O.Icel. *sess* 'seat' (cp. Lat. *sub-sessa* f. 'ambush'): Skr. *sattā-s* 'sitting' Lat. *ob-sessu-s*; O.H.G. *giwaht* 'mention, fame': Skr. *uktā-s* 'spoken'; Goth. *mōþ-s* 'wrath' O.H.G. *muot* 'spirit, temper, courage' beside O.C.Sl. *mě-ti* 'to dare'; O.H.G. *frost* (and O.Icel. *frost* n.) 'frost' beside *friosan* 'to freeze'. Lith. *būta-s* 'dwelling, house': Skr. *bhūtā-s* 'become, been', cp. O.Ir. *both* f. 'dwelling-place, hut' Skr. *bhūtā-m* 'existence with power, welfare, prosperity'; *maṣzta-s* (and *maṣzta*) 'uproar': Gr. *μῑκρό-ς* 'mixed'; *τεῖρτα-s* 'enclosure': *τεῖρτα-s* 'grasped, enclosed'; of course these Lithuanian masculine forms may once have been neuter. O.C.Sl. *čŭŭ* 'number' *po-čŭŭ* 'enumeration': Skr. *citā-s* 'arranged in rows or layers', cp. Skr. *citā* 'layer'; *podŭ-jētŭ* 'grasp, support' *podŭ-jētŭ* 'grasped, undertaken'.

Remark. With regard to the relation of the forms with vocalism of the strong grade to those with that of the weak grade (e. g. O.C.Sl. *pato* *peŭ*) see p. 221 above.

-no- -nā-, -eno- -enā-, -ono- -onā-.

Fem. Avest. *per'nā-* Goth. *fullō* 'fulness': Avest. *per'na-* Goth. *full-s* 'full'. Skr. *jaraṇā* 'old age': Skr. *jaraṇā-* 'deerepit'. O.H.G. *stulina* 'theft': O.Icel. *stolenn* 'stolen'.

Neut. O.H.G. *zorn* A.S. *torn* 'anger, wrath', orig. 'a torn or rent condition of the temper': Skr. *dīrṇā-s* 'torn to pieces';

O.H.G. *mein* 'falsehood, mischief': *mein* 'false, deceitful'. Skr. *vāhana-m* 'a carrying': *vahana-s* 'carrying' O.C.Sl. *vezenŭ* 'carried': *vārtana-m* 'turning, motion': *vartana-s* 'setting in motion'; *māna-m* 'measuring, measurement': *vi-māna-s* 'measuring out'. Goth. *bairan* inf. 'bear': *baúran-s* 'borne'.

Masc. Skr. *uṣṇa-s* (also *uṣṇa-m uṣṇā*) 'heat': *uṣṇā-s* 'hot'. Skr. *yajñā-s* 'reverence': Gr. *ἀγνό-ς* 'worthy of reverence, sacred, pure'. Gr. *θύρο-ς* 'onset, fight': Skr. *dhūna-s* 'violent, agitated'. O.H.G. *scīn* 'visibility, brightness, gleam': *scīn* 'visible'.

-iō- -iā-.

Fem. Skr. *kṛtyā-* 'infliction, bevitchment': *kṛtya-s* 'faciendus'. Gr. *φιλῶν* O.C.Sl. *bratrŭja* 'brotherhood': Gr. *φιλῶν* orig. 'brotherly'. Gr. *ἡσυχία* 'peace': *ἡσυχίω-ς* 'peaceful'; *ξενία* 'hospitality': *ξενίω-ς* 'hospitable'. Lat. *noxia* 'guilt, crime': *noxius* 'guilty, criminal'. O.H.G. *lugi* (which implies a preceding **luḡ-iō-*) O.C.Sl. *lŭža* 'lie': O.H.G. *luggi lukki* O.C.Sl. *lŭžŭ* 'lying, false'. A.S. *nyt* O.Icel. *nyt-r* 'use, advantage': A.S. *nyt* O.H.G. *nuzzi* 'useful, serviceable'. O.C.Sl. feminines like *suša* 'dryness' *qrožda* 'folly', see p. 131.

Neut. Skr. *vācya-m* 'speaking, word, blame': *vācya-s* 'dicendus'; *kṣatriya-m* 'lordship, supremacy': *kṣatriya-s* 'possessing lordship, ruler'. Gr. *σφάγιο-ν* 'offering, beast of offering': *σφάγιο-ς* 'striking, killing'; *ἐλκτῆριο-ν* 'delight, enchantment': *ἐλκτῆριο-ς* 'delighting, enchanting'. Lat. *auguriu-m* 'act of divination, prophecy': *auguriu-s* 'prophetic'. O.H.G. *gi-fuori* 'suitability, usefulness': *gi-fuori* 'suitable, useful'. Furthermore forms like Lith. *kiŕti-s* 'cut, blow' (Skr. *kartya-s* 'to be hewn or cut off') etc. no doubt represent original neuters; see p. 124 f.

-tŋo- -tŋa-. Examples of neuter forms are O.Pers. *cartana-* 'action', loc. *cartanaiy* used as infinitive, Lat. gen. *dandŭ* 'of giving': Lat. *dandu-s* 'to be given', Lith. *sùktina-s* 'torquendus'. See p. 161 ff.

-tŷo- -tŷa-. Neut.: Skr. *kārtva-m* 'task': *kārtva-s* 'faciendus'. Fem.: O.C.Sl. *žetva* 'harvest': Skr. *hāntva-s* 'feriendus'.

-mo- -mā-. Fem.: Gr. *θέρμη* 'warmth': *θερμό-ς* Armen. *jerm* 'warm'. Goth. *miduma* 'midst': O.H.G. *metamo metemo*

'mediocris' Avest. *mađema-* 'medioximus', cp. p. 167. O.C.Sl. *tūma* 'great number', orig. 'strength': Avest. *tūma-* Skr. *tū-tumá-* 'strong', cp. p. 171. Neut.: Avest. *gar'me-m* 'warmth': *gar'ma-* 'warm'. Masc.: Skr. *gharmá-s* 'warmth, heat': Avest. *gur'ma-* Lat. *formu-s* O.H.G. *warm* 'warm'. Goth. *rūms* O.H.G. *rūm* 'room': Goth. *rūm-s* 'roomy'; Mid.H.G. *stīm* 'turmoil, confused masses': Skr. *stīma-s* 'lazy, crawling' *pra-stīma-s* 'thronged, heaped'.

-ro- -rā-. Fem. Skr. *tāmisrā-* Lat. *tenebrae* 'darkness': Mid.Dutch *deemster* O.H.G. *dinstar* 'dark'. Gr. *ἄρκᾱ* 'point, peak': *ἄρκo-ς* 'pointed' O.C.Sl. *ostrŭ* 'sharp'. Neut. Skr. *ta-misra-m* beside *tāmisrā-*, Gr. *ἄρκo-ν* beside *ἄρκᾱ*. Skr. *chidrā-m* 'perforation, hole, interruption': *chidrā-s* 'perforated'. O.C.Sl. *vedro* 'good weather': *vedrŭ* 'clear, bright'.

This brief list of examples is enough to justify the conclusion that the fluctuation between the adjectival and substantival value in the *o*-nouns dates from the proethnic period¹). Now in the case of the double usage of the *es*-stems (such as Skr. *máhas-* 'greatness': *mahás-* 'great', Gr. *ψεῦδος* 'lie': *ψευδής* 'lying, false'), which is also proethnic, it can scarcely be doubted that the substantival value is the older, and it would be natural to adopt the same view in the present instance. But no decision is possible until the original meaning of the *a*-suffixes as opposed to the *o*-suffixes has been established. In discussing these (p. 106, 458) we were led to the conclusion that except in a comparatively small group of words (e. g. Lat. *equo-s* *equa*), they had no connexion whatever with the distinction of animal sex. A further consideration may now perhaps be suggested. Is it not precisely in the variation of meaning we have just noticed that we must look for light on the original function of the *o*-and *a*- suffixes?

1) It is still a question for investigation how far this use has been extended in the separate families of languages apart from the direct influence of the original variation of meaning in similar cases which came down from Indo-Germanic (cp. e. g. B. H. Balser, *De linguae Graecae participis in neutro genere substantive posito*, Lips. 1878, p. 29 ff.).

NOUNS WITHOUT FORMATIVE SUFFIXES (ROOT-NOUNS)¹).

§ 159. The term Root-nouns is applied to those nouns which do not admit of analysis into root and formative suffix. in the termination of whose stem no element can be recognised which is similarly used elsewhere to form noun stems. Whether, however, all the nouns that fall under this definition were from the beginning absolutely simple forms, must be left an open question. Many of them, e. g. Skr. *div-* 'heaven' and Lat. *hiem-* (see below), may have been originally compound forms.

Root-nouns are found in all divisions of Indo-Germanic; they have been preserved most frequently in Aryan and the classical languages. In many instances they lost the special character of their formation and passed into the analogy of some vowel declension (cp. § 56 p. 102 f.), and we may regard this change of declension as the chief cause of their comparatively rare appearance in Armenian and in Germanic²), and of their almost complete disappearance in Balto-Slavonic. Here however we are bound to discuss all the nouns of this kind which occur in the separate languages, when the change of declension has made no difference in their meaning.

The Root-nouns have no simple, clearly marked function (such as that of denoting material things, actions or any other special idea). Even those which are demonstrably proethnic have meanings of different kinds. The uncompounded examples are mostly substantives, and amongst these the nouns denoting an action (fem.) and those denoting the agent preponderate; and in the former group we must include those that are used as

1) Leo Meyer, *Die einsilbigen Nomina im Griech. und Lat.*, Kuhn's Ztschr. V 366 ff.

2) As far as the Germanic is concerned, this exchange of declension has been thoroughly discussed by B. Kahle, *Zur Entwicklung der consonantischen Declination im Germanischen*, Berlin 1887.

infinitives in Aryan, Greek and Latin. When they are the second members of compounds these nouns usually denote an agent.

This method of forming noun-stems was still in active use in the separate development of Aryan, Greek and Italic.

§ 160. Root-nouns uncompounded.

We will begin with such examples as appear simultaneously in more than one group of languages.

1. Forms showing vowel-gradation.

**uoik-* **uik-* (✓*ueik-* 'enter'): Skr. *viś-* f. 'settlement, house, community, stock', Avest. *vīs-* O.Pers. *viš-* f. 'village community, clan'; Gr. *oĩxade*, better written, *olxá-de*, 'homewards' (compare Hom. *τοῦξά-τε-ις*?); O.C.Sl. *vis-ĩ* 'village', which follows the *i*-declension. With Skr. acc. *viś-am* cp. *div-am* Gr. *Δία* beside *dyám* *Zēv* (see p. 481).

**dor̥k-* **dr̥k-* (✓*der̥k-* 'see'): Skr. *dr̥ś-* f. 'seeing, perception, eye', adj. 'seeing, beholding', inf. *dr̥ś-ē* 'to see' (§ 162); Gr. *δόρς* *δορξ-ός* f. 'roe, gazelle' (named from its eye).

Avest. *bar̥z-* *ber̥z-* f. 'height', adj. 'high'. O.Ir. *bri*, gen. *breg*, 'mountain' (I § 288 p. 230, § 298 p. 236). Goth. *baúrg-*, gen. *baúrg-s*, 'fortress, city'. Avest. *bar̥z-* may stand for **bhr̥gh-* **bhor̥gh-* or **bher̥gh-*; all the other forms represent **bhr̥gh-*.

**sem-*, *sm-* *sm-*. Gr. *εἷς* Cret. *ěv-*s, gen. *ěv-ός*, 'unus', *ěv* 'unum' (*ěv-ός* substituted for **ěu-ός*, see I § 204 p. 170); *μῶνυξ* 'with undivided hoof' for **omu-uvvξ*, fem. *μία* for **omu-ia*; *ἄμ-α* 'simul' instr. sing., see I § 236 p. 199. Lat. *sem-per* 'in one unbroken sequence, always'; for *-per* see I § 658, 7 p. 504.

kred-* (k̥erd-*) and **k̥yd-* 'heart'. Skr. *śrād dadhāmi* 'I believe, trust' Lat. *crēdō* for **crezdō* (I § 507 Rem. p. 372) O.Ir. *cretim* 'credo' (I § 521 p. 379), from the pr. Idg. phrase **kred dhē-*. Lat. *cor cord-is* O.Lith. gen. pl. *szird-u* (now *szirdziū*) from **k̥yd-*, cp. Gr. *καρδ-ία* Ion. *καρδ-ίη* etc., where the root has the same vowel-grade (I § 292 p. 234). Gr. *κῆρ* no doubt for **x̥h̥r̥d̥*¹⁾.

1) This shows that the law of vowel shortening discussed in I § 611 p. 461 f. was later than the loss of the *d*. Cp. p. 423 footnote.

Remark 1. Armen. *sirt* and Goth. *hadrīð* 'heart' represent **kērd-* or **kērd-* (the *ē* being shortened, cp. I § 614 p. 464 f.). What relation does this form bear to *kred-*? In view of this difference and of others, such as Lat. *grex*: Gr. γέγραφα (§ 52 p. 94), Gr. βρέφος: O.C.Sl. *žrěbъ* for **žerbъ*, Gr. πλίγω O.H.G. *blechen* Skr. *bhrājatē*: Skr. *bhārgas* (cp. also Skr. *drakṣyāmi* and the like I § 259 p. 212), we may perhaps suppose that the metathesis — under certain conditions — occurred in protoethnic Indo-Germanic.

**ped-* m. 'foot'. Ar. *pad-*: Skr. acc. sing. *pād-am* dat. sing. *pad-ē* loc. pl. *patsú*, Avest. acc. sing. *pād-em* *pad-em* dat. pl. *pad*byō* instr. sing. *pad-a*. Armen. pl. *ot-kē*; by its side we find ting. *otn* gen. *otín*. Gr.Dor. πῶς (πῶς?) νός Att. novs (the *ov* has not been explained), gen. *pod-ós* etc., instr. sing. Lesb. Boeot. etc. *ped-á* 'after, with', Heracl. *Fixati-ped-o-s* 'amounting so 20 feet'. Lat. *pēs ped-is*, Umbr. *perī persi* 'pede' *du-purs-us* 'bipedibus'. In Germanic **ped-* occurs in O.Icel. *fet* n. 'step', **pod-* in A.S. *fæt* 'step'; elsewhere **pōd-*: nom. pl. O.Icel. *fætr* A.S. *fet* = pr. Germ. **fōt-iz*, loc. sing. A.S. *fet* = pr. Germ. **fōt-i*; Goth. acc. *fōt-u* *fōt-uns* (pr. Germ. *-un -uns* = *-m -us*, I § 244 p. 203), on the pattern of which was formed nom. sing. *fōt-u-s* etc. (thus the correspondence of the Gothic word with Skr. *pād-ú-ṣ* would be purely accidental). For the ablaut cp. I § 311 p. 249.

Skr. *vāc-* f. 'voice, speech', without vowel gradation (acc. *vāc-am* dat. *vāc-ē*), Avest. *vāc-* *vac-* m. 'speech, word, prayer' (nom. *vāxs* acc. *vāc-em* instr. *vac-a*). Gr. ὄψ f. 'voice'. Lat. *vōx* f. 'voice, word', all from √*ueq-* 'speak'. The original paradigm is uncertain, perhaps nom. **uóq(-s)* acc. **uóq-ŋ* loc. **uég-i* dat. **uq-áḡ*. Cp. I § 314 p. 252 f.

Skr. *bhrāj-* f. 'brightness, gleam' instr. *bhrāj-ā* (cp. pres. *bhrāj-a-tē*). Gr. φλόξ φλογ-ός f. 'flame' (cp. pres. φλέγ-ω). The root is *bhleg-* (*bhelg-*), cp. Rem. 1 above; the original paradigm of the noun is not clear.

**nās-* **nas-* 'nose'. Skr. du. *nās-ā* instr. sing. *nas-ā*, O.Pers. acc. *nāh-am*. Lat. *nār-em*, which has become an *i*-stem (*nārium* etc.). Cp. also A.S. *næs-āyrli*, Lith. *nas-rai* *nós-i-s*. Originally it formed acc. **nās-ŋ* dat. **nas-áḡ*. Cp. I § 318 p. 257. We

cannot regard as certain the often repeated conjecture that the *-s-* in Lat. *nās-u-s* O.C.Sl. *nos-ŭ* is explained by supposing **nās(s)* to be the original form of the nominative, cp. I § 569 Rem. 3 p. 427.

2. Forms showing vowel-gradation, and the loss of the final consonant of the root before the *-m* which appears in the acc. sing. when a sonant follows. (Cp. I § 188 p. 162, § 192 p. 164).

**diēu- *diēu* m. 'heaven, bright day'. Skr. *dyáu-ṣ diyaú-ṣ* acc. sing. *dyám diyám div-am* nom. pl. *dyáv-as diyáv-as div-as* loc. sing. *dyáv-i div-i* dat. sing. *div-ē* instr. pl. *dyú-bhi-ṣ*. Gr. Ζεῦ-ς for **Ζηυ-ς* (I § 611 p. 461) voc. Ζεῦ acc. Ζῆν (whence sprang the forms Ζῆνα Ζηρός Ζηνί) Δί(φ)-α gen. Δίφ-ός loc. Δίφ-ι. Lat. Umbr. Osc. *Jov-* (for **Diov-*, I § 135 p. 122, § 506 p. 371) and *Di(i)ov-*: Lat. *Jov-em Jov-is, Jūpiter Juppiter* voc. = Ζεῦ πάτερ (I § 612 p. 463), dat. O.Lat. *Diov-ei Diov-e*, Umbr. Iuve Osc. Iuv-ei 'Iovi' Osc. Diúv-ei 'Iovi'; the Ital. *-ov-* may in all the cases = Idg. *eu* (I § 65 p. 52)¹⁾; to these add Lat. *diem* for **diēm*. Germ. gen. sing. in O.H.G. (Alemannic) *Zios-tac* A.S. *Twos-dæg* O.Icel. *Týs-dag-r* (Goth. **Tius-dag-s*) 'day of Tiu (Zio), Tuesday'. The original paradigm seems to have been: nom. **diēu-s* (beside this possibly a parallel form **diēs* before consonants and when it stood last in a sentence, cp. Gr. Ζῆς Lat. *diēs*) acc. **diēm* voc. **diēu* (for the quality of the accent see I § 671 p. 536) loc. **diēu-i* dat. **diu-ai* loc. pl. **diu-si*.

Remark 2. The analysis of **diu-* into **di-u-* is no doubt right. **diu-* seems to bear the same relation to **di- *dei-* as *eru-* (Skr. *eru-tá* 'flowing') bears to *er- ser-* (Skr. *sar-* 'go, flow'), see § 8 Rem. 2 p. 20 f. Then as we speak of a 'root' *ereu-*, we may certainly add **diēu-* to the root-nouns. However, if any scholar, in view of Avest. *bāzāu-š* O.Pers.

1) There is nothing to prevent our claiming for Italic the same double forms **diēu-* and **diēu-* as we find in Sanskrit; cp. also I § 120 p. 111 and § 153 p. 138 f., § 170 p. 150 (*bi-dēns: dui-dēns*). I am therefore unable to agree with Danielsson, who would separate etymologically *Jov-* and *Diov-* (Gramm. und etym. Stud. I. 49).

dahyāu-s and Gr. *βανιλύς* (for *-ης*) should prefer to class this word amongst those containing suffixes, I should offer no objection. It is entirely a matter of convention.

**gōu-s* m. f. 'ox, cow'. Skr. *gāú-ṣ* acc. sing. *gām* and *gāv-am* nom. pl. *gāv-as* loc. sing. *gāv-i* dat. sing. *gāv-ē* instr. pl. *gō-bhiṣ*. Avest. *gāu-š* *gao-š* acc. *gaṃ gāum* (i. e. *gāv-em*) *gaom* (i. e. *gav-em*) instr. *gav-a gāv-a*. Armen. *kov*, gen. *kovu* (*u*-decl.). Gr. *βοῦς* for **βους* (I § 611 p. 461) acc. Hom. Dor. *βῶν*, gen. *βο(φ)-ός*; the acc. *βοῦν* is a new formation following *βοῦς*. Lat. *bōs bov-is* (is this borrowed from some Umbr.-Samn. dialect? see I § 432 Rem. 1 p. 322), Umbr. *bum* 'bovem' *buf* 'boves' *bue* 'bove'; Ital. *bov-* may be Idg. **gou-* or **geu-* (I § 65 p. 52). O.Ir. *bō* gen. *bō*, cp. I § 174 p. 153; kelt. **bov-* may be either Idg. **gou-* or **geu-* (I § 66 p. 56). O.H.G. *chuo* O.Sax. *kō*, A.S. *cū* O.Icel. *ký-r*; the relation of the vowels presents a difficulty; **kō-* (O.H.G. O.Sax.) may perhaps have been developed out of the acc. pr. Germ. **kōn* = Gr. *βῶν*, and **kū-* (A.S. O.Icel.) may perhaps come from an Idg. stem of the form **gā-* (cp. Skr. *śata-gu-* 'having a hundred cows' Gr. *ἐκατόν-βη* = *-*gu-a*). The original paradigm may be conjecturally given as follows: nom. sing. **gōu-s* (also possibly a parallel form **gō-s* like **dīē-s*, cp. Gr. *βῶς* beside *βοῦς*) acc. sing. **gōm* nom. pl. **gōu-es* loc. sing. **gēu-i* dat. sing. **guy-āi* **gu-āi* loc. pl. **gū-sú*.

Skr. *rās* 'property, treasure, riches' acc. *rām* and *rāy-am* instr. pl. *rābhīṣ* nom. pl. *rāy-as* dat. sing. *rāy-ē*, Avest. nom. pl. *rāy-ō* inst. sing. *ray-a* gen. pl. *ray-am*; cp. Skr. *rē-vānt-* 'rich' *ray-i-ṣ* 'property, treasure, riches'. Lat. *rēs rem rēs* 'property, thing'. Cp. I § 150 p. 136.

Skr. *kṣām-* f. 'earth': nom. *kṣās* acc. *kṣām* nom. pl. *kṣām-as* loc. sing. *kṣām-i* gen. abl. sing. *kṣm-ás gm-ás jm-ás* instr. sing. *kṣam-ā jm-ā*. Avest. *zā* acc. *zam* gen. *z'm-ō* instr. *z'm-ā*. Gr. *χθών* f., *χθον-ός* instead of **χθου-ος* (I § 204 p. 172), *χθαμ-αλό-ς χαμ-αί* (*Maia* for **Xμ-aia* **Γμ-aia*?). Cp. further Lat. *hum-u-s*, *hom-ō* O.Lat. *hem-ō*, *hūm-anu-s* (probably not for **hūmin-anu-s*, but formed immediately from **hōm-* and only at a later

period connected with *homo*), Goth. *gum-a*, Lith. *žm-onà* 'wife' (cp. p. 346 footnote 1), O.C.Sl. *zem-lja*. The original paradigm may be conjecturally given as follows: acc. **gzhóm*¹⁾ nom. pl. **gzhóm-es* loc. sing. **gzhém-i* dat. sing. **gzhym-ái* (cp. Skr. *kṣam-ā* Gr. *χθαμ-αλό-ς* *χαμ-αί* Goth. *gum-a*) **ghm-ai* loc. pl. **gzhm-sú*.

Avest. *zyā* m. 'winter' acc. *zyam* gen. *zim-ō*. Gr. *χών* f. 'snow', gen. *χιόν-ος* instead of **χιου-ος*, like *χθον-ός* (see p. 482). Lat. *hiem-s hiem-is*. O.Ir. *gam* 'winter' instead of **gi(i)am-* O.Cymr. *gaem* for **geam-* **gi(i)um-*, see I § 383 p. 288, § 392 p. 293. We may conjecture that the orig. paradigm was acc. **ghíóm* **ghíóm* nom. pl. **ghíóm-es* **ghíóm-es* loc. sing. **ghíém-i* **ghíém-i* dat. sing. **ghim-ái* loc. pl. **ghim-sú* **ghim-sú*. The word may be mentioned here, although it is certainly not a root-noun in the strict sense of the word, cp. Skr. *hē-man* Gr. *χει-μών*. But we find nowhere else an Idg. suffix *-em-²⁾*.

**dem-* 'house', √ *dem-* 'build'. Gen. Skr. *dán* Avest. *dēnag* = pr. Ar. **dam-s*, Avest. loc. *dam* = pr. Ar. **dām*. Gr. gen. **δενς* = Skr. *dán* in *δεσ-πότης* 'lord of the house' (I § 204 p. 171); *δα-* = **dgh-* in *δά-πεδο-ν* 'house-floor', then 'ground' in general; here probably must be classed *δάμαρτ-* 'wife', which should be analysed into *δαμ-αρτ-* = Idg. **dghm-* (I § 236 p. 199); remarks

1) As regards the initial part of the word I assume the correctness of Bartholomae's hypothesis, see I § 554 Rem. 1. p. 407.

2) In view of the fact that words of contrasted meaning often influence each other in form (on this point cp. amongst others the Author, *Ber. der kgl. sächs. Gesellsch. der Wissensch.* 1883 p. 191 ff., W. Meyer, *Die Schicksale des lat. Neutrums im Romanischen* 1883 p. 12, Holthausen in Paul-Braune's *Beitr.* XIII 590, Wheeler, *Analogy and the scope of its application in language*, Ithaca N. Y. 1887, p. 19 sq.), it is not a very bold conjecture that there once existed in protoethic Indo-Germanic a form **gh(i)en-*, whose *n* gave place to *m* under the influence of the word **sem-* 'summer' so often joined with it (Avest. *ham-* Armen. *am-arn* O.Ir. *sam* O.H.G. *sam-ar*, cp. Bartholomae, *Ar. Forsch.* II 111 f.). Even during the period of separate development the words for these two ideas have sometimes influenced one another; cp. e. g. O.Ir. *gam*: *sam* (see I § 392 p. 293), O.H.G. *wintar*: *sumar* (see Kahle, *Zur Entwickl. der consonant. Decl. im Germ.*, 1887, p. 20).

on further examples from Greek may be found in R. Meringer's paper in the *Ztschr. f. österr. Gymn.* 1888 p. 152. Cp. also Avest. *dm-āna-* and Armen. *tun* gen. *tan* for **tm-an-*. We may conjecture therefore that the following was the original paradigm: acc. **dōm*, whence Gr. *δῶμα*, nom. pl. **dōm-es*, loc. sing. **dēm-i* gen. sing. **dēm-s* (cp. gen. Skr. *gōṣ* Avest. *gaos*, Skr. *dyōṣ*), dat. sing. **dm-āi* **dym-āi* loc. pl. **dm-sú*.

As to the forms **dīēm* **gōm* **rēm* see I § 150 p. 136, § 188 p. 162. I may now also refer the reader to Johansson, *De derivatis verbis contractis* (Upsala 1886) p. 117 ff., R. Meringer, *Ztschr. f. österr. Gymn.* 1888 p. 132 ff.

Obs. 3. Meringer's welcome 'Hints' shew very clearly that in the question he discusses there is much that still needs explanation. Here I can only add a few remarks (cp. p. 428 footnote). I regard the accusatives also (**gzhōm* **ghīōm* **dōm*) as regular phonetic developements. What Meringer (in footnote 6 p. 139) offers as 'another possible solution' is distinctly preferable to that which is given in the text itself; for if there had ever been a nom. sing. **dīēs* **gōs* without *u*, it is certain that the *u* would never have been again inserted in these forms (Skr. *dyāúṣ*) without being at the same time restored to the precisely parallel acc. sing. (such a form as **dyāum* is unheard of). Moreover, I do not feel convinced that *u* and *i* ever disappeared before consonants and at the end of a sentence in the nom. sing. as well as the acc. (Gr. *Zī*; Lat. *dīēs*, Gr. *βῶς*, Skr. *rās* Lat. *rēs*); in all these we must allow the possibility of a re-formation on the model of the acc. sing. With regard to *kīās* I must here emphatically repeat what I have said elsewhere. Meringer's assertion (p. 132. 137), that J. Schmidt has 'demonstrated' the loss of *n* after *ā ē ō* before final *s* in pre-ethnic Indo-Germanic, does not agree with the facts (cp. § 135 Rem. 1 p. 428). Lastly, I would add that we are not justified in assuming the same Indo-Germanic inflexion for all monosyllabic stems of this kind, so as to construct e. g. an acc. **nām* 'navem' simply on the model of **gōm*. It is not necessary to suppose that all these monosyllables arose at the same period of the parent language. For example, **nāu-* 'ship' may have been formed at a later stage, and so have been dealt with otherwise than the older stems were at the time when they came into existence.

3. Forms in which vowel-gradation cannot be proved.

**rēg-* 'ruler, king'. Skr. *rāj-* 'prince, king', usually found as the second member of compound words. Lat. *rēx* *rēg-is*. O.Ir. *rī* *rīg*, Gall. *Calu-rīg-es* ('battle-lords'). Goth. *reik-* nom. pl. *reik-s*; the *ei* is remarkable (I § 74 p. 64).

Skr. *ds-* (instr. *as-d*) Avest. *ah-* (n.?) 'month'. Lat. *ds* n., *ōr-is*. Cp. also O.Icel. *ōs-s* 'river-mouth'.

Gr. *φῶρ* Lat. *fūr* 'thief'. √ *bher-* 'carry'.

Gr. *χίρ* 'hedgehog', Lat. *ēr hēr*.

**nāy-* f. 'ship'. Skr. *nāu-*§ acc. *nāv-am* dat. *nāv-ē*. Gr. *ναῦς* for **nāy-s*, *ναῖ* for **nāy-ai* (Ion. *νηῦς νηῖ* are new formations), nom. pl. *νῆ-ες* gen. sing. *νη-ός* *νεός* (I § 611 p. 464). Lat. *nāv-em*, which has become an *i*-stem, nom. *nāv-i-s*. Cp. also O.Icel. *nōr* (gen. *nōs*) m. from pr. Germ. **nōy-a-z*.

**mūs-* 'mouse'. Skr. *mūṣ-*, nom. pl. *mūṣ-as*. Gr. *μῦς* loc. pl. *μῦσῖ*; *μῦν μῦός* instead of **μῦ(σ)-α* **μῦ(σ)-ός* follow *ὀφρῶν -ώος* and the like; *μῦός* then produced *μῦσῖ* beside *μῦσῖ*. Lat. *mūs- mūr-is* Germ. *mūs-* is kept e. g. in nom. acc. sing. O.H.G. *mās*, nom. pl. A.S. *mȳs* O.Icel. *mȳs-s*; beside which we find new formations following the vowel declension. O.C.Sl. *myšī* follows the *i*-declension. A by-form Idg. **mus-* (the accentless form of the weak grade) is seen in Skr. *muṣ-ká-s* Lat. *mus-culu-s* (should we assume a parallel form *māsculu-s*?) § 88 p. 262 f.

Skr. *dīś-* f. 'direction, region of the sky', Lat. gen. *dic-is* in *dicis causa* 'only in appearance, for form's sake', √ *deik-* 'point out, show'.

Gr. *νίψ-α* acc. 'snow', Lat. *nix niv-is*, go back to a common ground-form **snigh-* (I § 423 p. 309, § 433 p. 322 f.), √ *sneigh-*.

Gr. *χῆν* *χην-ός* Dor. *χᾶν* *χᾶν-ός* 'goose' for **χανσ-*; the nom. *χῆν* is a new formation which has replaced **χᾶς* as *μῆν* replaced *μεῖς* (stem pr. Gr. **μηνσ-*). In Germanic the same stem occurs in a few forms, as in A.S. loc. sing. *zēs* = Gr. *χην-ι*, and also in the Lith. gen. pl. *žas-ū*, which elsewhere conforms to the vowel-declension. The *-s-* of the word however, may perhaps be an element of the nature of a suffix, cp. O.H.G. *ganazzo* 'gander'.

Gr. *ἄλ-ς* *άλ-ός* m. Lat. *sāl sal-is* m. n. 'salt', Umbr. *salu* 'salet'; Lat. *sāl* instead of **sal* follows forms like *pēs*. Armen. *ał* gen. *ał-i* and O.C.Sl. *sol-χ* are *i*-stems.

4. There is a special group of forms in which are found *-ū -ī -ṽ -ṛ -ḷ-* before case-endings which begin with a con-

sonant, and *-uy-* *-ij-* *-yn-* *-yr-* *-ll-* before those which begin with a vowel. See I § 253 p. 207, § 306 p. 243, § 312 p. 250.

**bhrū-s* f. 'eyebrow' dat. sing. **bhruy-āi*. Skr. *bhrū-ṣ* loc. pl. *bhrū-ṣū* acc. sing. *bhrūv-am* dat. sing. *bhruv-ē*. Gr. *ὀφρῦ-ς* acc. *ὀφρῦ-ν* gen. *ὀφρῦ-ος*; loc. pl. *ὀφρῦοι* instead of **ὀφρῦοι*. A.S. *brū*. The O.C.Sl. *brūv-ī* belongs to the *i*-decl. Compare the parallel forms Gall. *brīva* 'bridge' O.H.G. *brāwa* 'brow' whose common ground-form is **bhrēu-a-*.

**sū-s* 'sow' dat. sing. **snuy-āi*. Gr. *ὕ-ς ὕ-ν ὕ-ός*. Lat. *sū-s* *sū-bus* *su-em* *su-is*, Umbr. *sim* 'suem' (I § 57 p. 46). O.H.G. *sū* O.Icel. *sý-r*; **snuy-* is perhaps represented by A.S. *suzu* f. 'sow', see Bugge, Paul-Braune's Beitr. XIII 509 f. Cp. the dimin. *sū-go-* § 88 p. 263.

Gr. *ἰχθῦ-ς ἰχθῦν ἰχθῦ-ος* m. 'fish'. Lith. gen. pl. dial. *šuv-ū*; elsewhere it follows the *i*-decl., *šuv-l-s*. Cp. Armen. *ju-k-n* etc. § 88 p. 263.

Gr. *ἰ-ς* f. 'power, might' instr. *ἰ-φι*. Lat. *vī-s vim* for **vī-m* (I § 612 p. 463, § 655, 4 p. 503). **ui-* before sonants seems to have disappeared.

The other instances belong only to single groups of languages: é. g. Skr. *gō-ṣā-s* gen. *-ṣaṇ-as* 'gaining cattle' (*-ṣ-*), *pūr* gen. *pur-ās* 'fortress' (*-f-*).

5. Skr. *jya- jya-* f. Gr. *βλα* f. 'might'. Compare Skr. perf. *ji-jyāu* subst. neut. *jyāna-m* and perf. *ji-gāy-a* pres. *jāy-a-ti*. Cp. § 8 Rem. 1. p. 20, and Morph. Unt. I 6.

§ 161. Examples from single groups of languages. The largest numbers are found in Aryan, Greek, and Italic.

Aryan. When they denote an action these root-nouns are always feminine.

Skr. *drūh-* f. 'injury, enmity', concrete 'injurer, enemy', Avest. *druj-* f. 'lie', concrete 'fiend (f.)'. Skr. *kṛp-* f. 'figure, appearance', Avest. *kehrp-* f. 'figure, body': cp. Lat. *corp-us*. Skr. *kṣāp-* f. Avest. *xšap-* f. 'night'. Skr. Avest. *ap-* f. 'water': acc. Skr. *āp-am* Avest. *āp-em*, instr. Skr. *ap-d* Avest. *ap-a* Skr. acc. *khā-m* f. 'source', finds its complement in Avest. *xā* f. 'source',

both from pr. Ar. **khū-s* **khū-m*, beside Ar. *khun-* 'dig'. Skr. *spāś-* Avest. *spas-* m. 'spy, inspector', cp. Lat. *au-sper*, Gr. *οἰώψ* 'owl'. Skr. *hṛd-* n. Avest. *zard-* n. 'heart'. Skr. *māh-* Avest. *maz-* 'great'.

Skr. *vṛdh-* f. 'help, prosperity', adj. 'helping, strengthening'. *vṛt-* f. 'host of foes, foe', adj. 'turned against anyone'. *nṛt-* f. 'bearing, gesture'. *yúj-* 'yoked with, companion', cp. Gr. *σύνυξ* Lat. *con-jux*. *īś-* 'lord'. *bhū-* f. 'world', nom. sing. *bhū-* s pl. *bhūv-as*. *dhī-* f. 'thought'. *bhī-* f. 'fear'. *gīr-* f. 'praise, laud', adj. 'praising', nom. sing. *gīr* ground-form **gīr-s* pl. *gīr-as* ground-form **gīr-es*. *jā-* f. 'being, creature' adj. 'born, formed', nom. sing. *jā-s* acc. sing. *jā-m* loc. pl. *jā-su*, ground-form **gī-*. *sthā-* 'standing', nom. sing. *sthā-s* acc. *sthā-m*. *psa-* f. 'food' *ni-drā-* f. 'sleep' *vra-* f. 'host, troop' like *jya-* § 160, 5 (Morph. Unt. I 18. 43).

Avest. *var'z-* *ver'z-* 'work'. *mas-* 'great, wide', cp. Gr. *μακρός*.

Armenian. The old root-nouns have passed into other declensions. See the examples in § 160. It is however possible that certain case-forms, such as *ot-k* 'pedes' *sirt-k* 'corda', still belong to the old consonantal inflexion.

Greek. *στῆξ* *στυγός* f. 'hatred, awe', cp. *ψενσί-στυξ* 'hating lies'. *πρώξ* *πρωκός* f. 'drop, dew', ground-form **pṛk-*, see I § 306 p. 242. *ἀλκ-ί* loc. sing. beside *ἀλκ-ή* 'strength of body'. *κρόκ-α* acc. sing. beside *κρόκ-η* 'woof', compared with *κρέκειν*, which was also used of the noise caused by the striking of the web. *φρίξ* *φρίκός* f. beside *φρίκ-η* 'the shiver of the surface of the water'. Thus no doubt *δίκ-η* has replaced an older **diξ* = Skr. *dīs-*. *λύγξ* *λυγγός* f. 'hiccough' beside *λυγγάνομαι* *λύζω* *λύγ-οηρ* (O.H.G. *sluccho* n. 'devourer'); for the nasal in the root-syllable cp. I § 221 p. 187 and Skr. *yūñj-* beside *yúj-* (acc. *yūñj-am* and *yúj-am*) Lat. *con-junx* beside *-jux*. *τριξ* *τριχός* f. 'hair' (cp. I § 496 p. 364 f.). *αὐλάξ* f. 'furrow' for **á-fluk-*, with the by-forms *ᾠλξ* *ᾠλοξ* *ᾠλαξ*, seems to have sprung from an old doublet **flak-*: **Folk-* with ablaut, from (s)*uelq-* 'draw, pull' (cp. Darbishire, Notes on the spir. asper in Greek, Cambridge 1888,

p. 29). ῥῶξ ῥῶγ-ός f. 'rift, cleft, split', beside ῥήγ-νῦ-μι. ὤψ 'countenance' acc. ὤπ-α; compare κύκλ-ωψ ἑλλκ-ωπ-ες and οἶν-ον αἶθ-ον, which probably shew an old gradation ὤψ ὤπ-α *ὀπ-ός etc. κρεῖ n. 'barley' no doubt for *κρεῖθ, cp. κρεῖθη. θῶς, gen. θῶός, 'jackal' beside θεψ- 'run'. χρεή 'necessity' (cp. also ὁμοκλή 'joint cry, loud cry', μεσό-δμη 'intermediate structure, cross-beam'), like βία § 160, 5 (Morph. Unt. I 49. 64). κρέξ κρεκ-ός m. a bird, and also 'braggart', beside κρέκω, cp. κρόκ-α above. τρώξ τρωγ-ός m. 'gnawer, worm' beside τρώγω. κῆς κ-ός m. 'a worm in the corn', like Skr. dhī-ṣ dhiy-ās. κλώψ m. 'thief' beside κλέπ-τω. Further examples are given by Bloomfield, Amer. Journ. of Phil. IX 7 ff.

Italic. Lat. *lēx lēg-is* f. 'law', Osc. *ligud* 'lege' *ligis* 'legibus' Marruc. *līs* 'lex' or 'leges' Pelign. *lex-e* 'in leges'. Lat. *vās vās-is* n. 'vessel', Umbr. *vas-us* 'vasis' (the preservation of the voiceless *s* in all the cases is perhaps due to the analogy of the nom. acc. sing.). *man-* 'hand', Umbr. *man-f* acc. pl., Lat. *man-ceps malluviae* for **man-luviae*, with other exx. (Danielsson, Pauli's Altital. Stud. III 189 f., Duvau, Mém. de la Soc. de lingu. VI 226 f.). The connexion between Lat. *frūx frūg-is* f. 'produce' and Umbr. *frif* acc. 'fruges, frumenta' (I § 57 p. 46) is doubtful, see Pauli Altital. Stud. V 114 f.

Lat. *lūx lūc-is* f. 'light'. *nux nuc-is* f. 'nut'. *pix pic-is* f. 'pitch'. *vic-* gen. *vic-is* f. 'change' (beside *vincō*, see Osthoff, Paul-Br. Beitr. VIII 272). *nex nec-is* f. 'death'. *prex prec-is* f. 'prayer'. *op-s op-is* f. 'might, means, power'. *pāx pāc-is* f. 'peace'. *dap-s dap-is* f. 'feast', beside Gr. *dan-ánnē* 'expenditure'. *arx arc-is* f. 'citadel'. *faex faec-is* f. 'dregs'. *faux fauc-is* f. 'throat'. *spē-s*, acc. *spe-m*, f. 'hope'. *re-quiē-s*, gen. *-quiēt*, f. like Skr. *jya-* § 160, 5 (Morph. Unt. I 10). *strix strig-is* f. 'horned owl'. *dux duc-is* m. 'leader'. *vas vad-is* m. 'surety'.

Osc. *far* n. 'far' and Umbr. *far* n. 'far' *farer* 'farris' appears to be a root-noun; *far-*: Lat. *farr-* (for **far(e)s-*, see § 132 p. 413 and p. 420) = Skr. *kṛp-*: Lat. *corpus*.

Old Irish. *bri* 'mountain', *ri* 'king', *bō* 'cow', see § 160. This method of forming noun-stems seems to have died out in

Irish. Cp. further the Gall. *brog-* 'district, neighbourhood, land' in *allo-brox* pl. *allo-broges*, parallel to which we find *brogi-* in *Brogi-mārus* O.Ir. *bruig* and other exx. (Zimmer, Kelt. Stud. I 117 f. Thurneysen, Keltoroman. 50).

Germanic. The original root-nouns (§ 160) were all more or less completely transferred to the vowel declensions; e. g. out of the Goth. paradigm, sing. nom. *baúrgs* gen. *baúrgs* dat. (loc.) *baúrg* acc. *baúrg* pl. nom. *baúrgs* gen. *baúrgē* dat. *baúrgim* acc. *baúrgs* only the gen. dat. sing. and the nom.-acc. pl. belong to the original consonantal declension.

Even amongst the few root-nouns which do not recur in other languages there are none in which the simple root is used for the stem in all the cases. Examples of forms whose stems contain no suffix are: O.H.G. dat. sing. *gi-nōz* nom. pl. *gi-nōz* beside nom. sing. *gi-nōz* 'companion' (i. e. 'one who enjoys (*geniesst*) with another'), A.S. dat. (loc.) sing. *bēc* beside nom. sing. *bōc* 'book', O.Icel. nom. pl. *hend-r* beside nom. sing. *hond* (Goth. *handu-s*) 'hand'; see Kahle's essay cited on p. 478 footnote 2. As regards some of these nouns it is probable that they had at first a vocalic formative suffix, and that it was a secondary process, affecting even then only a certain number of their cases, which put them on a level with the root-nouns.

Balto-Slavonic. The root-nouns as a class have almost entirely disappeared, giving place to new formations on the model of the vocalic declensions; e. g. Lith. *nós-i-s* f. 'nose', O.C.Sl. *vis-ŕ* f. 'village', see § 160. Besides these there are only a few traces preserved in the forms of the gen. pl. in Lithuanian: O.Lith. *szird-u*, Mod.Lith. *šqs-ū šuv-ū*; we should add Slav. *krŭv-* f. 'blood' gen. sing. *krŭv-e*, beside which we have nom. sing. *krŭv-ŕ* instead of **kry*.

§ 162. *Nomina actionis* used as Infinitives. Cp. § 156 p. 470 ff.

This usage is found in Aryan, Greek and Italic. In all three the dative is used as an infinitive; in Sanskrit other cases are used as well.

In Sanskrit the case-suffix had the accent, if the verb had no prefix; otherwise the accent fell on the root-syllable. *dr̥ś-ē* 'to see' *bhuj-ē* 'to enjoy', *nir-ājē* 'to drive forth' (Lat. *ag-ī*) *ni-nāmē* 'to bend down'. Avest. *sav-ōi* 'to use' *dar-s-ōi* 'to see'.

Lat. *ag-ī* (: Skr. *-ājē*), *dīc-ī*, *sequ-i ūt-ī*, hence also *tund-ī* *posc-ī* *mi-nu-ī* etc. in imitation of these forms. A difference in meaning was established between these and the locative forms *agere* etc. (§ 132 p. 418), the latter being distinguished as active, the former as deponent or passive forms; the origin of this process was probably an accidental preponderance of the use of the dative of root-nouns to serve as infinitives in deponent verbs.

-s- sometimes appears between the root-syllable and the dative termination. This is rare in Aryan: Skr. *jī-ṣ-ē* 'to conquer' *-prāk-ṣ-ē* 'to fill, satisfy', Avest. *a nāšē* 'to bring near', root Avest. *nas-* Gr. *ἐνεγκ-*. Gr. *γράφαι* 'to write' *δείξαι* 'to show'. The *-s-* is identical with the element which is frequently found in the verb finite after the root-syllable, particularly in the sigmatic aorist, to which it gave its name (it is very possible that it is etymologically identical with the *-s-* which is used in the formation of noun-stems, § 134 p. 424 ff.; cp. Morph. Unt. III 42 f.); hence in Greek this kind of infinitive was confined to the sigmatic aorist. In Latin we may compare such forms as *da-rī fer-rī*.

Remark 1. There are difficulties in determining the relation of the Latin forms in *-se -re* to those in **-sī -rī*; several different views are almost equally tenable. If we start by assuming that Latin inherited from an earlier period only forms in **-es-i* (*vivere amāre*) **-ai* (*agi*) **-s-ai* (*dari*), we must suppose that the following are new formations: *dare ferre* on the model of *vivere amāre*, and on the other hand *amārī* following *dari*, *ferī* also instead of *fiere*. But perhaps even in the pre-Italic period there were parallel forms in **-s-i* (*da-re*), cp. *dixē scripse* and Skr. infinitives like *dr̥ś-i* (see below). Lastly it is also possible that on the analogy of indic. **aget*: infin. **agesi* (*agit*: *agere*) the infinitives **es-si* **fer-si* (*esse* and *ferre* respectively) were first formed to correspond to *es-i fer-t* and that then and not before *ferī* was formed on the model of *agi*.

Remark 2. In Old Latin and even later in poetic diction beside the forms in *-ī* and *-rī* we find equivalent forms in *-ier* and *-rier*, as *agier* *darier*. It has often been assumed that *agier* should be analysed into *agie-r*, *-r* being the sign of the passive as in *agitur*, and **agie* being the

ground-form of *agi*. This every one would admit if **agis* could be explained as an infinitive form¹), and if the change from *-ie* to *-i* could be shewn to be regular (it is not shewn by the voc. *fīlī*, for the *-i* of this form may be the original weak-grade of *-iō-* *-iē-*, cp. § 68 p. 122). Other explanations of *-ier* *-rier* are equally unsatisfactory; see e. g. J. Stadelmann, *De quantitate vocalium Latinas voces terminantium*, Lucerne 1884, p. 73, V. Henry *Mém. de la Soc. de lingu.* VI 62 ff. I conjecture that *-er* represents the preposition *ar* (*ar-biter ar-corsus*), which appears to be of dialectic origin (I § 369 Rem. 1 p. 280). For the change of *-ar* to *-er* see I § 97, 3 p. 91, cp. *in-ers arti-fex im-pertiō*; and for the position of the word cp. *quem ad* beside *ad quem* and Umbr. *asam-ař* 'ad aram'. It need not surprise us to find at so early a stage of Latin the combination of the infinitive with a preposition which is established in the Romance languages (cp. *ad* before the infinitive, as Ital. *ho a scrivere*, *Diez Gramm* III⁴ 231 ff.), since even in Latin the infinitive had again approximated to the noun, and at least *inter* and *praeter* were used with it (see p. 471 ff.). Nor is there any difficulty in the assumption that *agi-er*, after the origin of the *-er* had been forgotten, had the same meaning as *agi*: the assimilation in usage was caused by the association of the final *r* of *agier* with the *r* of *agor agitur* etc. This entire class of infinitive formations, being like *ar* of dialectic origin, were allowed to drop out of use in classical prose, like so many other idioms that came from the same source.

In Sanskrit we find, besides the dative, the acc. in *-am*, the loc. in *-i* and the gen.-abl. in *-as* used as infinitives, e. g. *ā-nām-am* (*ā-nam-* 'incline or bend towards one'), *dyś-i sa-dyś-i* (cp. *dyś-ē* p. 490), *abhi-śrīṣ-as* (*abhi-śrīṣ-* 'make fast to').

§ 163. Root-nouns appearing as the second member of compound words.

In the Indo-Germanic and later periods we find compounds in which a root is the second member, and serves as a noun to denote the agent, as in the Skr. *puru-drūh-* 'injuring many'. There is no need to assume that the root was first used in the compound as a *nomen actionis* and that the whole word was subsequently epithetised (i. e. converted into an adjective, see § 50 p. 92), since in protoethnic Indo-Germanic the root could be used alone to denote the agent; cp. Skr. *rdj-* p. 484, Skr. *drūh-* Avest. *druj-* etc. p. 486 ff. More rarely the compound has a passive sense, as Skr. *sa-yuj* 'joined by bonds of friend-

1) Thurneysen's explanation seems to me improbable (*Über die Herkunft und Bildung der lat. Verba auf -ia*, p. 46).

ship or kinship', cp. *yúj-* 'yoked with, companion'. Compound words of this type were formed in Aryan, Greek and Italic.

Indo-Germanic. Skr. *sq-yuj-*, see above, *manō-yúj-* 'yoked by thought, by mere will', Gr. *σύν-ζυξ* *óμó-ζυξ* 'yoked together, united', especially 'joined in marriage', Lat. *con-jur*. Skr. *viśva-vid-* 'knowing everything', Gr. *νῆ-ις* acc. *νῆ-ιδα* 'not knowing, ignorant'. Skr. *tri-bhúj-* 'threefold, triple' Avest. *qzō-bāj-* 'freeing from distress', Gr. *πρόσ-φυξ* 'fugitive, client'. Skr. *pr̥tandj-* (*pr̥tana-aj-*) 'running in or to battle', Lat. *rēm-ex*. Skr. *muhur-gīr-* 'devouring suddenly', cp. Gr. *ὠμο-βρωξ* 'devouring raw' gen. *-βρω-τ-ος* etc., see I § 306 p. 242, § 312 p. 250, II § 123 p. 391.

I may add a few examples taken from the separate groups of languages.

Aryan. Skr. *vytra-hán-* Avest. *ver'pra-jan-* 'slaying Vritra': acc. Skr. *-hán-am* Avest. *-jan-em* dat. Skr. *-ghn-é* Avest. *;n-é* loc. pl. Skr. *-há-su*. Skr. *upastha-sád-* 'sitting in the lap', Avest. *armaē-šād-* 'sitting quiet'. Skr. *úd-añc-* 'turned or directed upwards' acc. sing. *úd-añc-am* loc. pl. *úd-ak-ṣu*, *ny-àñc-* Avest. *ny-anc-* 'turned or directed downwards', cp. Gr. *ποδ-αν-ός* 'coming whence?' Lat. *prop-inqu-o-s* *long-inqu-o-s* (cp. I § 228 p. 195); the Sanskrit and Avestic declension of words containing *-añc-anc-* (Whitney Skr. Gr. § 407 ff., Bartholomae Handb. § 192, J. Darmesteter, Le suffixe *-ac-* en Iranien, Mém. de la Soc. de de lingu. III 302 ff.) shows many new formations, partly caused by a confusion with forms which had the suffix *-go-* (see § 86 p. 256). Skr. *satya-yáj-* 'duly honouring, duly offering' Avest. *daēva-yāz-* 'honouring the demons, offering to them'. Avest. *na-zd-* Skr. *nēd-*, only in compar. and superl., see § 135 p. 431.

In Sanskrit, compounds of this kind are very common. Any root could be used in this way. We may add as further examples *su-dṛś-* 'seeing well', *sahō-vṛdh-* 'increasing strength', *purō-yúdh-* 'fighting before', *purō-bhū-* 'being in front, surpassing'. In Iranian too this kind of formation remained in active use, cp. *vohu-var'z-* 'working good', *ahūm-mer'c-* 'slaying, injuring the world' (also *-mer'nc-*, cp. Skr. *yuñj-* Gr. *λύγξ* p. 487).

Greek. *ψευσί-στυξ* 'hating deceit'. *οινό-φλυξ* 'drunken with wine, wine-bibbing' (cp. I § 427 p. 314, § 428 p. 316). *χέρ-νιψ* 'water for the hands' originally 'washing the hands', *ἐπό-δρα* for **-δραx* neut. adv. 'looking from below upwards', cp. Skr. *दृश-* f. 'sight, aspect'. Here perhaps we may class *δεῦρο* (which hitherto has never been satisfactorily explained) if it stands for **δε-φρον* 'inclined hither', compare *ἐέπω* 'I incline' *ἐοπή* 'inclination, sinking, direction'; *ν* is regular, as in *καλα-ῥοσιψ*; *δεύρω* Hom. *Γ* 240 may be for **δε-φρων*; more probably it is only a re-formation on the model of *ἄνω πρόσω* and the like.

Italic. Lat. *jūdex* 'declarer of the law, judge' for **jouz-dic-s* (I § 33 Rem. 1 p. 33, § 594 p. 450), Osc. *med-dīss med-dis* 'meddix' (I § 501 p. 368); in spite of its abbreviated form metd. which occurs once, I should prefer not to separate the first part of the Oscan word from Umbr. *meṛ-s mers* 'ius, fas' (§ 132 p. 418). Lat. *prae-ses -sid-is. tubi-cen -cin-is. libri-pēns -pend-is. redux -duc-is.*

Remark. For *arti-fex opi-fex* see § 85 p. 254.

Germanic. O.H.G. *ort* O.Icel. *odd-r* 'point' may have been a compound of this kind, standing for **ud+dhē-* 'upraise, lift on high' (I § 536 Rem. p. 392); it is however quite conceivable that the original form was **ud+dh-o-*, with the suffix *-o-*, which in this position would date from a very early period.

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